

# SOUTHERN TEXTILE BULLETIN

VOL. X

CHARLOTTE, N. C., OCTOBER 14, 1915

NUMBER 7

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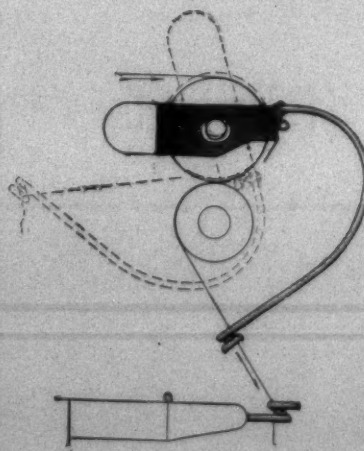
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Extra Strength of Yarn	Reduced Cost of Spinning
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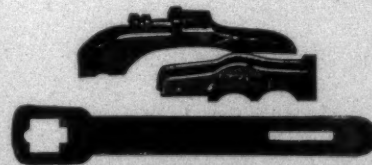
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**GRAPHITE LUBRICATING COMPANY, - - Bound Brook, N. J.****PURO**Don't Pay Good Money for  
Impractical, Unmechanical  
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and the Sanitary Drinking Fountain is  
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controlled by separate "squeeze" han-  
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sure. Has thread for hose if wanted.Write us the number of your employees  
and water pressure and we'll present  
an interesting proposition to you  
promptly.**Puro Sanitary**  
**Drinking Fountain Company**

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Actual Size 7" High



# SOUTHERN TEXTILE BULLETIN

VOLUME X

CHARLOTTE, N. C., OCTOBER 14, 1915

NUMBER 7

## Edison and the Electric Incandescent Light

Edison Day, October 21, commemorates the thirty-sixth anniversary of the invention of the electric incandescent lamp and honors its master inventor, Thomas A. Edison. On December 21, 1879, just two months to a day after Mr. Edison first successfully made a carbon filament glow in a glass bulb from which the air had been exhausted, when a current of electricity was

this down in about five years to about one watt; while in the larger sizes of Mazda gas-filled lamps, the reduction in current consumption has reached the low level of nearly a half-watt per candlepower. And no one can forecast the marvels that are yet to be unfolded in electric lamps and methods of lighting.

It is interesting at this time to review some of Mr. Edison's reminiscences of the work in the latter part of 1878 and in 1879, and the stirring and exciting events during the constant striving and experiments, for such they were, tempered first with anxiety and then with elation. On New Year's Eve, following the brief press announcement of the invention, Oct. 21, 1879, and the detailed account two months later, the first public exhibition of the long-looked-for electric light was given at Menlo Park, N. J., where Mr. Edison's laboratory is

candle' exclaims the sceptic, 'and how, then can it withstand the fierce heat of an electric current? Very true, but Edison makes the little piece of paper more infusible than platinum, more durable than granite. And this involves no complicated process. The paper is merely baked in an oven until all its elements have passed away except its carbon framework. The

and ridiculing Edison, and showing that it was impossible for him to achieve that which he had undertaken."

Edison practically began his experiments in electric lighting in September, 1878. Just previous to this he had returned from a visit to a Connecticut factory where an electric arc lamp was used, which concentrated his thoughts on the subject of lighting by electricity,



Thomas Alva Edison as He Looked About the Time He Invented the Electric Incandescent Lamp, Oct. 21, 1879.

run through the filament, the New York Sunday Herald announced the details of the great invention with headlines: "Edison's Lamp—The Great Inventor's Triumph in Electric Illumination—A Scrap of Paper—It Makes a Light, Without Gas or Flame, Cheaper than Oil—Transformed in the Furnace—Complete Details of the Perfected Carbon Lamp—Fifteen Months of Toil—Story of His Tireless Experiments with Lamps, Burners and Generators—Success in a Cotton Thread—History of Electric Lighting."

This was even before Edison had successfully determined and chosen carbonized bamboo, the only substance used for about ten years in making filaments for commercial lamps, which was followed by the "squinted" filament employing carbonized cellulose in one form or another, next the metalized carbon filament, then the pressed tungsten filament, and finally the special form of drawn tungsten wire used in modern Edison Mazda lamps. Working down from a consumption of 4 or 5 watts of electrical energy per candlepower in Edison carbon filament lamps to the standard a few years ago of 3.10 watts per candlepower, the Mazda lamp has brought



The First Edison Electric Incandescent Lamp.

located, the place being illuminated with the new lamps.

The detailed press account describes the new lamp as "A Lighted Paper," and continues, "Edison's electric light, incredible as it may appear, is produced from a little piece of paper—a tiny strip of paper that a breath would blow away. Through this little strip of paper is passed an electric current, and the result is a bright, beautiful light, like the mellow sunset of an Italian autumn."

"But paper instantly burns, even under the trifling heat of a tallow



Interior of Edison's Laboratory, Menlo Park, at the Time He Invented the Electric Incandescent Lamp.

latter is then placed in a glass globe and he determined to tackle the connected with the wires leading to the electricity producing machine, and the air exhausted from the globe. Then the apparatus is ready to give out a light that produces no deleterious gases, no smoke, no offensive odors—a light without flame, without danger, requiring no matches to ignite, giving out but little heat, vitiating no air, and free from all flickering; a light that is in a little globe of sunshine, a veritable Aladdin's lamp. And this light, the inventor claims, can be produced cheaper than that from the cheapest oil. Were it not for the phonograph, the quadruple telegraph, the telephone and the various other remarkable productions of the great inventor, the world might well hesitate to accept his assurance that such a beneficial result had been obtained; but, as it is, his past achievements in science are sufficient guarantee that his claims are not without foundation, even though for months past the press of Europe and America has teemed with dissertations and expostions from learned scientists

and he determined to tackle the problem. Speaking of his entrance into the field, Edison has said, "The idea struck me all of a sudden in 1873. . . . In those days, it was easy to see what electric lighting needed—it wanted to be sub-divided. The lights were too bright and too big. What we wanted was little lights and to distribute them to people's houses like gas."

The task before the young inventor involved commercially: first, the production of a pure, steady and reliable light from electricity; and second, producing it so cheaply that it could compete with gas for general illumination. The electrical problems presented constituted: a dynamo of low resistance armature; second, a high resistance lamp, of relatively low candlepower; and third, a distributing system on which the lamps would be connected in multiple instead of in series. All these ideas were revolutionary.

Of the two systems before him, the voltaic arc and the incandescence, Edison wisely chose, as we

(Continued on Page 3.)



# What You Will See at the Textile Exposition

Having begun last week we are continuing in this issue the advance notices of the exhibits which will compose the Southern Textile Exposition.

Those who expect to attend the Exposition and who to obtain full value from same should write each exhibitor in advance for a catalogue. Mention that you saw the sketch in the Southern Textile Bulletin.

## Babcock & Wilcox Company.

The Babcock & Wilcox Company will have in spaces 20 and 204 at the Southern Textile Exposition, to be held at Greenville, S. C., November 2nd to 6th, an interesting exhibit of models, boiler and superheater parts, photographs, etc.

This company is the manufacturer of all steel Babcock & Wilcox, Stirling, and Rust Water Tube Boilers, Steam Superheaters, and Chain Grate Stokers.

The Babcock & Wilcox Company claims to be the oldest, largest, and most successful boiler company in the world.

Probably the best evidence of the value of the boilers built by this company, and the reliability of the apparatus under all conditions of service, is the fact that there are installed throughout the world eighteen million horse-power in plants representing every known industry.

One of the interesting features of the product of this company is that it does not carry any boilers in stock, each proposal being considered an engineering problem by the Engineering Department of that company.

A great many of the large power stations throughout the United States are equipped with boilers manufactured by this company, in units varying in size up to twenty-five hundred horsepower per boiler. Over one hundred and twenty-five thousand horsepower of boilers manufactured by the Babcock & Wilcox Company have been installed in the cotton industries of the company. Their exhibit was awarded first prize at the Centennial Exposition, Philadelphia, 1876, and has recently been awarded the Grand Prize for its exhibit at the Panama-Pacific International Exposition, San Francisco.

Mr. R. A. Barrett, District Sales Manager, Candler Building, Atlanta, Ga., and assistants, will be in charge of the Babcock & Wilcox Company's exhibit at Greenville, S. C.

## Barber-Colman Company

The Barber-Colman Company of Rockford, Ill. will have space No. 224 and 241 and expect to exhibit their Hand Knotters and a Model K Warp Tying Machine. Their claims for the Model K machine are, that it will take the place of

skilled labor, which is hard to obtain and it will increase loom production. One of these machines will ordinarily do as much as three skilled hand twisters; they have found from actual experience in several mills that an ordinary operator can tie in a warp at the loom in about one third of the time required to twist it in or tie it by hand. Thus if two hours were required to twist it in they can tie it in in about forty minutes giving the loom an extra hour and twenty minutes production per warp over its previous capacity. Of some classes of work this makes a considerable increase in loom production. They claim that in one mill in particular where they have installed these machines figures from the showing already made that the profit gained because of increased production will almost offset the entire purchase price of the machine in one year.

It will be a pleasure to them to demonstrate this machine to all mill men and their friends who visit the exhibition. J. H. Spencer will be in charge.

## The Comptometer Exhibit.

The Felt & Tarrant Co., of Chicago, Ill., will have spaces 330 and 331 and have the following to say regarding their exhibit:

Has it ever occurred to you that important as is the productive end

of the textile industry, there is another side of the business which has hitherto received scant attention in exhibitions of appliances and equipment for the promotion of economy in cotton mill work?

The office is a necessary adjunct of every business. And it should be borne in mind that real worth while economies are being affected these days through the agency of modern office methods and appliances in the handling of office work. This is especially true of the accounting department where, too often, there is prodigal waste of time and labor, which the use of proper appliances would easily correct. Some contrasts between the new and old way of handling the figure work of accounting will be shown at the Textile Exposition in our booth.

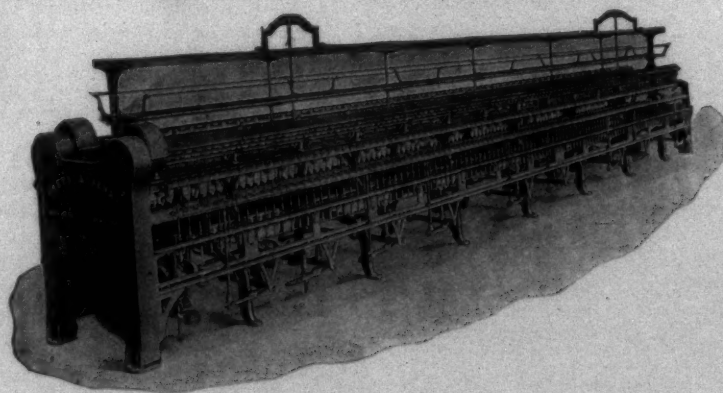
The prospective purchaser of an adding machine does not care much about the mechanical features involved in its construction. What he wants to know is what it will do and how it does it—the nature and extent of its service, and what it is worth measured in the terms of investment.

All this will be shown in a very practical way in the Comptometer exhibit, where men familiar with the problem of the cotton mill accountant, will demonstrate how such work is handled on the machine. Visitors, especially office men, are invited to submit prob-

## Ring Spinning Frame

The Fales & Jenks Ring Spinning Frame of today possesses the same sturdy qualities that have characterized our products for generations. Nothing has been spared to make it the highest type Ring Spinning Frame in the market. Rigid, substantial, simple, convenient and easily adjustable, it is sure to appeal to you.

We shall be pleased to furnish catalogue No. 32 upon request.



**Fales & Jenks Machine Company**  
Pawtucket, Rhode Island

## Specialists in Cotton Mill Machinery

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SPOOLERS, REELS AND SPINDLES  
EASTON & BURNHAM MACHINE COMPANY, Pawtucket, R. I.

Southern Representative, J. H. MAYES  
Independence Bldg., Charlotte, N. C.



lems of their own for solution—any kind of problem from any department of accounting.

Everybody knows from experience what a dull, dreary, brain-wearying task it is to foot long columns of figures and work out multiplications and divisions with pencil and paper. On seeing the same work done in a fraction of the time and with no more effort than is required to finger the keys, one can better understand why the Comptometer is already employed in so many cotton mill offices.

Some idea of its range and service may be gleaned from the following list of uses representing actual work being performed by the Comptometer daily in one mill or another.

Proving Daily Postings.  
Adding Trial Balance.  
Proving Freight Bills.  
Figuring Costs.  
Figuring Statistical Reports.  
Balancing Ledger Accounts.  
Extending and Proving Invoices.  
Extending and Footing Payroll.  
Denominating Payroll.  
Figuring Percentages and Costs.

Some interesting short cuts made possible by use of the Comptometer will be explained by the demonstrators in attendance.

The educational value of these demonstrations and the explanatory talks that go with them should command a liberal degree of attention from cotton mill men or any one interested in shorter, better and easier methods of handling all the figure work of accounting.

#### Reeves Pulley Company.

The Reeves Pulley Company of Columbus, Ind., will show in space 104.

"The Reeves" Variable Speed Transmission.

"The Reeves" Wood Split Pulley.

"The Reeves" Roller Bearing.

"The Reeves" Variable Speed Transmission is of especial interest to the textile manufacturer as hundreds of them are now in use in textile mills for regulating the speed of various machines, such as Tent-ering Machines, Dryers, Printing Machines, Washers, and bleaching and dyeing machinery of all kinds that require variable speeds.

"The Reeves" Transmission may be applied to any machine whatever and enables the operator of the machine to regulate the speed of his machine accurately, even to a thousandth of a revolution and secure absolutely any speed within its range without stopping or interfering with the work in any way. Thus it is possible to secure precisely the speed needed for any kind of goods, maintain it for any length of time or vary it as often as desired. Every textile mill engineer, superintendent and foreman will be interested in having this transmission demonstrated to him and see just what its possibilities are.

"The Reeves" Wood Split Pulley is too well known to the textile manufacturers of the South to need any introduction. Thousands upon thousands are in use in that district where they have been running for the past thirty years.

"The Reeves" Roller Bearing is designed for line shaft service and should be of particular interest to the textile manufacturers. It has been a well known fact for years that the old style friction bearings were inefficient and consume much power. "The Reeves" Roller Bearing will fit any make of hanger and the box is so designed that the bearing may be assembled outside the hanger and slipped into place. The

rollers are very large in proportion to the load they have to carry, are fastened into the cage for convenience in assembling, ground accurately and roll in a straight line around the shaft. "The Reeves" Roller Bearing reduces friction to the minimum and shows a wonderful saving of power.

#### Addressograph Company.

The Addressograph Company of Atlanta, Ga., will exhibit in space

No. 329 and 332 Addressograph Payroll Machines, and will distribute a booklet, "Payday—Making It Automatic with the Addressograph." This gives you full description of what the Addressograph will do.

The Addressograph Payroll System is being used by quite a number of mills in the South, such as Hampton Cotton Mills, Columbia, S. C.; Wiscasset Mills Co., Albemarle, N. C.; Proximity Cotton Mills,



This trade-mark the guarantee of excellence on Goods Electrical

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Youngstown, Ohio.  
For MICHIGAN business refer to General Electric Company of Michigan, Detroit, Mich.  
For TEXAS, OKLAHOMA and ARIZONA business refer to Southwest General Electric Company (formerly Hobson Electric Co.), Dallas, El Paso, Houston and Oklahoma City.  
For CANADIAN business refer to Canadian General Electric Company, Ltd., Toronto, Ont.



G-E Enclosed design "A" continuous operating loom motors

Forstman & Huffman Co., Passaic, N. J.

More Product  
Better Quality  
Greater  
Cleanliness

## Secured by Using G-E Motors

Forstman & Huffman Co., Passaic, N. J., one of the largest fine worsted dress goods manufacturers in this country, have equipped 550 of their looms with G-E enclosed design "A" continuous operating loom motors. They have secured an increase in production as well as an improvement in quality and cleanliness.

## Tested Motors in Own Mill—Selected G-E Motors

The G-E enclosed motors with waste packed bearings, liberal overload capacity and superior construction were found to answer the requirements best after a thorough trial and comprehensive test conducted at the mill by equipping 21 looms with motors. Totally enclosed motors mean cleanliness in motor and goods and protection to motor and operator.

Liberal rating of motor assures ability to take care of change in style to heavier goods without injury to motor or loss in production due to drop in speed.

## Year's Service—No Shut-Downs Due to Motors

Some of these motors were installed April 1, 1914. The manufacturer has not had one moment's shut-down on a single loom from motor trouble to date, September, 1915. This record is not unusual where G-E motors are installed.

If you are interested in "safety first" motor equipment well insulated and built, with ample overload capacity, a copy of our Textile Bulletin No. 48016 will interest you.

# General Electric Company

General Office: Schenectady, N. Y.



### Edison and the Electric Incandescent Lamp.

(Continued from Page 3).

know, the latter as the practical one for the subdivision of electric lighting into little units. The discovery of the proper substance and method for securing the incandescence proved the sticker. The almost boundless scope of his investigations, which is so characteristically epitomized in his remark,

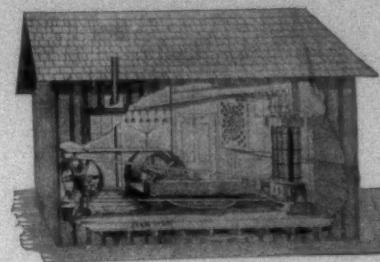
finally found in the fiber growing just under the outside hard surface of a certain variety of bamboo. The tireless work of this discovery alone merits the tribute of President Richard C. MacLaurin of the Massachusetts Institute of Technology, "Edison stands out as a conspicuous example of scientific pertinacity."

Reminiscing on his work at that time, Edison declares, "I think I

loop, and sealed it in a glass globe from which the air had been pumped out. When the current was turned on, that black thread glowed

the more fascinated we were. None of us could go to bed, and there was no sleep for over forty hours. We sat and just watched it with anxiety and growing elation.

"It couldn't be put on the market, of course," he continued on the subject of the lamp, "but it showed unmistakably that electricity could be used for incandescent lighting. I spent about \$40,000 in bringing the investigation up to that point; and yet in a way, this was only the beginning. A little later we placed several hundred paper-filament lamps on the market. Although people liked them, I knew we could do better. So I began a hunt for the right kind of carbon. Men were sent all over the world to collect grasses and fibres that looked promising. They brought back several hundred and out of the lot I selected a certain kind of bamboo that grows in Japan. We made filaments out of that nine years."

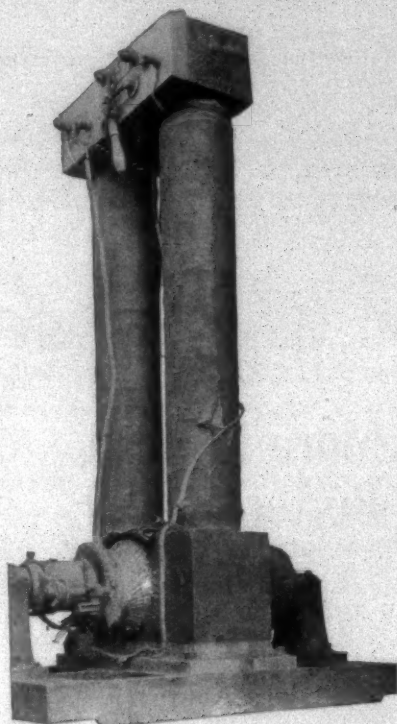


Interior of the First Commercial Edison Two-Wire Lighting Station in the United States, at Appleton, Wis., 1882.

for forty hours. That was really the first incandescent electric lamp."

Commenting on the stirring scenes in the laboratory at the time of the discovery, Mr. Edison says, "We sat and looked, and the lamp continued to burn, and the longer it burned

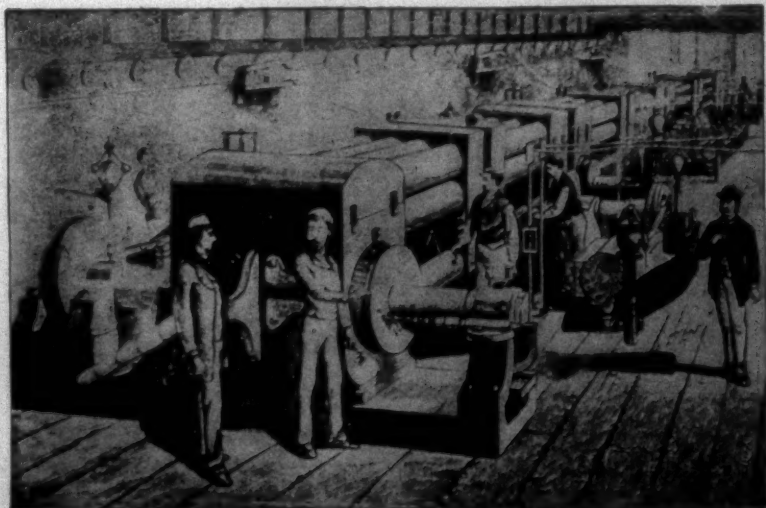
Edison also did a great deal of work with metal filaments, similar to those used at present. Among the early metals experimented with



Early Edison Dynamo or Generator Built in 1883.

"We tried various things," is evidenced in some measure by the patent records. The substances that were experimented with included electric arc light carbon (made into paste and rolled into threads), cotton thread, vulcanized fiber, jute, palm fiber, grasses, carbonized flax, threads made of lamp black and tar,

read every patent that was ever taken out on a piece of lighting apparatus, even though it had nothing to do with electric lighting. And I think I read every book that was worth reading on illumination, before I began work in earnest. "The first thing to do was to find out what was the best material to



Interior Pearl Street Station, First Edison Electric Lighting Station in New York.

charcoal, hemp, soft paper, fish line, use for a light producer. I soon made up my mind that of all the material I could obtain in 1877 carbon was the most promising, if I could get the right conditions. If there was any form of carbon we did not test, I have still to learn it. . . . Finally, on October 21, 1879, I carbonized a piece of treated cotton sewing thread bent into a

### THE SEYDEL MFG. COMPANY

JERSEY CITY, N. J.



Sizings and Finishings

Soaps and Softeners

FOR ALL TEXTILES.

## SACO-LOWELL SHOPS

### TEXTILE SERVICE

FOR the convenience of our customers, we maintain in connection with our Charlotte office, a completely equipped shop, for the proper reclothing of Card Flats and Card Lickersin. Skilled experts are in charge and we invite you to avail yourselves of this service. A stock of card clothing constantly on hand enables us to supply all requirements promptly.

We are especially anxious that all our cards either Newton or Lowell pattern give satisfactory service and upon request will send expert to inspect cards and make such recommendations as may be necessary to put them in the very best possible shape.

ROGERS W. DAVIS, SOUTHERN AGENT

CHARLOTTE, N. C.



considerably was platinum and alloys. Prominent among the difficulties encountered, it will be remembered, was the liability of platinum, when that metal was tried, to melt under the intense heat of the electric current; and the tendency of carbon, when employed gradually to become dissipated under the combined action of gases and the electric current. He tried regulating the current with platinum through levers and diaphragms, but the expansion and contracting of the platinum destroyed the fine adjustment of these devices and they became worthless. Many forms of spirals of platinum and alloys were tried, also osmium-iridium, from which he obtained some success. But Edison found that when metallic conductors that fuse at high temperature are exposed to a high temperature near their melting point in air for several hours by passing a current of electricity through them and then allowed to cool, the metal is found to be ruptured, and under the microscope are revealed myriads of cracks, many of which reach nearly to the center of the wire. He also discovered that they lost weight. These faults lowered their resistance and were fatal to their lasting qualities.

It seemed then that all his work so far had been futile, but success grew out of failure. The very thing induced him to attempt intercepting the deteriorating effect of atmospheric action, which resulted in the vacuum bulb. Coincident with this discovery it dawned upon him that it was necessary to employ substances with high ohmic resistance for filaments to improve the quality of the light. And so the first commercial carbon filament lamps were evolved, and later through various stages of research the other improved types up to the present modern Edison Mazda lamps.

Edison had already been working with success on a generator or dynamo as it was called, to produce current for his lighting system. Commenting on the scientific criticisms of his machine when the invention was publicly announced, Edison remarked, "I was told that to get the best effects the resistance of the machine must be equal to that of its load. Did you ever hear of such foolishness? I thought it was strange to lose one-half the energy I generated in the machine, because what we were after was to get the stuff out and sell it."

The next great problem that Edison tackled was a system of distribution. Prior to 1880 there was no method known by which large numbers of electric lights of a power equal to a gas burner could be operated practically over large areas. Speaking of this period, Edison said, "I had the central station in mind all the time. I wanted to use 110 volts. Now there is no use for you to ask me why, because I do not know, but somehow that figure stuck in my mind; and I had calculated that if we could get the voltage up that high, the copper cost would be somewhere within sight."

In regard to installing his first central station, the old Pearl Street station in New York City, he said,

"You cannot imagine how hard it was. There was nothing that we could buy or that anybody could make for us. There were no high-speed engines, and the manufacturers said they were impossible."

Mr. Porter (of the old Porter-Alien Engine Company) built for Edison his first high-speed engine, of 150 horsepower and 700 revolutions per minute. Edison says, "We set the machine up in the old shop, and as we had some idea of what might happen, we tied a chain round the throttle valve and ran it out through a window into the wood shed, where we stood to work it. It ran, O yes, it ran. Every time she turned over, she shook the firmament, and tried to lift the whole hill with her. Toned down to 350 revolutions, she ran satisfactorily, and everybody said, 'Why how beautifully she runs, and how practical such an engine is.' Now don't you know I knew they would say that? Didn't you ever find out that trying to do the impossible makes about half the impossible seem easy?"

While this work was going on in the shop, underground mains were being laid in New York. "During this period," says Edison, "I used to sleep nights on piles of pipe in the station." Finally, the great day for trying out the system arrived. "We started one engine and all was well, and we had 500 ohms resistance. Then we started another engine and threw them in parallel. Of all the circuses since Adam was born, we had the worst then. One engine would stop and the other would run up to about 1,000 revolutions. Then they would see-saw. When the circus began, the gang bolted, and kept running for a couple of blocks. What was the matter? Why it was those darn Porter governors." By connecting all the governors together, the engines were finally made to behave.

Once, when a heavy load was unexpectedly thrown on, Edison called up his station and enquired, "How is it at the station?" The reply came back, "Oh, bully. Everything is red hot, and the ammeter has made two revolutions."

Of switchboard instruments there were none. In his early work, Edison said, "We used to hang up a shingle nail and tie it alongside of a feeder, and that was our heavy current ammeter. It worked all right. When the nail came close to the feeder, we screwed up the rheostat a little, and kept the lamps in the station looking about right."

Edison paved the way to original scientific investigation in the lighting field, and this work is all being carried on in the research laboratories of the General Electric Company by what is probably the greatest corps of lighting experts and scientists in the world. The technical skill employed to improve constantly electric lamps and lighting embraces every phase of associated invention, design and manufacture. Practically every branch of science and engineering is represented in this great work of experimentation, testing and development. The effectiveness of such extensive investigation is best secured through co-

(Continued on Page 15).

# PUBLIC SALE

## In LIQUIDATION

The entire plant and property of  
the Hope Mills Manufacturing Company

situate at Hope Mills, Cumberland County, North Carolina, consisting of Mill No. 1, a two-story brick building, with a water power of about 300 horse power; Mill No. 2, a two-story brick building, with a water power of about 500 horse power; Mill No. 3, a two-story brick building, with a water power of about 90 horse power; Mill No. 4, a two-story brick building, with 250 steam horse power; two superintendents' houses; 268 tenant houses from two to four rooms; 14,000 spindles, with the necessary belting, shafts, machinery and equipment, and 1563 acres of land, including the land on which the above improvements are located,

will be sold to the highest bidder at  
public auction on Wednesday,  
November 10th, 1915,

on the steps of the Court House, in FAYETTEVILLE, NORTH CAROLINA, at 10 o'clock, a.m. The property will be sold clear of all encumbrances, and will be offered first as an entirety, and then in parcels, the real estate to be sold as one parcel, and the looms, spindles, shafting, and all machinery and fixtures as a separate parcel, the best aggregate price to be accepted.

A deposit of five thousand dollars (\$5,000) in cash, or its equivalent, will be required at the time of sale, if the property is purchased as an entirety, or if purchased in parcels a deposit of \$3000 will be required for the real estate, and \$2000 for the machinery and fixtures.

By order of the Board of Directors.

Hope Mills Manufacturing Company

Further particulars can be obtained from

W. J. BEATTIE, JR., Secretary,

Hope Mills, N. C.



### What You Will See at the Exposition.

(Continued from Page 5).

Greensboro, N. C.; Revolution Cotton Mills, Greensboro, N. C.; Cannon Manufacturing Co., Kannapolis, N. C.; Anchor Duck Mills, Rome, Ga., and these mills are said to be saving considerable time in making up their pay sheets each week, because the Addressograph will list 100 names per minute on pay sheets and 50 names per minute on pay envelopes and pay tickets.

The filing system for payroll names is so elastic that all changes in names from week to week are taken care of with the greatest of ease. A. S. Woodward, manager of the Atlanta office, will be in charge.

#### Thos. Leyland & Co.

Thos. Leyland & Co., of Readville, Mass., will exhibit a patented article known as the Mycock Regulating Cloth Expander; this is made with three and five bars. On each bar is a set of corrugated discs which revolve when the cloth passes through and under them. The result is that the cloth is brought out in width. This invention is in use in practically all the bleacheries and print works.

They will also, exhibit a Scutcher which is used in several processes of bleaching and dyeing for opening out the cloth in its wet state.

#### International Acheson Graphite Co.

The International Acheson Graphite Company, of Niagara Falls, N. Y., has made elaborate arrangements to exhibit their products, Aquadag, Oildag and Gredag, graphite lubricants, which have been originated, perfected and made applicable to the field of lubrication by Dr. Edward G. Acheson.

They state that when you consider that lubrication is the greatest problem confronting the human race, aside from food; and that it is impossible to produce the latter in civilized countries without having to deal with lubrication, you get some idea of the vast importance of the subject.

They will explain to you by the use of reproduced graphitic charts, moving pictures, lectures, etc., the results obtained by the use of their products in some of the most prominent manufacturing in this country, including such firms as the Shredded Wheat Company of Niagara

Falls, Library Bureau of Chicago, the frictional horse-power loss to Pratt & Litchworth, Crosby Company and the American Radiator Company—Jierce Plant—of Buffalo, the lowest point, which they claim cannot be accomplished by the use of oil alone.

They seek earnest consideration and attention, especially in regard to Spindle Lubrication, and feel that their proposition will be of interest.

#### Clipper Belt Lacer Company.

The exhibit of the Clipper Belt Lacer Company of Grand Rapids, Mich., in space No. 40 will consist of their "Clipper" Belt Lacer and "Clipper" Belt Hooks.

The "Clipper" Belt Lacer is a small, portable tool, which can be taken to the belt, set on the floor or on a box, and a row of "Clipper" Belt Hooks of the proper width placed in the tool. The squared end of the belt to be laced is then inserted, and by depressing the handles the hooks are deeply embedded into the end of the belt, flush with both surfaces, leaving a uniform row of loops extending across the belt end. When the other end is similarly treated the two ends are brought together round the face of the lower pulley in such a way as to intermesh the loops. A rawhide pin is slipped through these intermeshed loops and the job is finished.

The "Clipper" Belt Hooks are made from a special steel wire of an analysis that combines great tensile strength with rigidity and wearing qualities, capable of standing a strain of over 400 pounds per inch on single belts, and more on double belts.

A. B. Holland will have charge of their exhibit and their president, G. P. Foote, expects to visit the exposition.

#### Lombard Iron Works and Supply Co.

It is the intention of the Lombard Iron Works and Supply Co., of Augusta, Ga., to only have a booth (space 510) at the Southern Textile Exposition, which they will endeavor to comfortably arrange for the use of any one desiring to use it. They will not put on any exhibit of machinery.

#### L. R. Wattles & Co.

L. R. Wattles & Co., of Canton Junction, Mass., will exhibit in space 237 several kegs and samples of their sizing compound. A. S. Wattles of Canton Junction, Mass., will be in charge of the exhibit, assisted by their Southern representative, Alonzo Her of Greenville, S. C.

#### Western Electric Company.

The watchword of modern business today is "Maximum results with minimum effort." This watchword can well be applied to the textile industry and one of the ways of securing the greatest results with the ager, superintendent or other executive is to install in the mill or factory a Western Electric Interphone system which will enable the manager or superintendent from his desk in the office to communicate with every department or point in the plant with the greatest ease.

No matter if the organization be large or small, a thousand, a hundred or a half dozen people, a touch on the button of the Interphone instrument brings an immediate response from the foreman or other employee wanted. The question is asked or the instruction given in less time than it takes to tell it, and with far greater ease and in less time than it would take to walk or send a boy.

Inter-phones are practical, talking telephones, manufactured by the Western Electric Company who for nearly forty years have manufactured all the Bell telephone instruments used throughout the country. There are different styles, shapes and sizes to meet every condition. The user is the only operator required, pushing one button makes all the desired connection and systems can be provided whereby any station can call and talk to any other one, or where only communication between one central point, such as the office, and the other stations is possible.

The Western Electric Company will in spaces 308 and 309A have a very comprehensive exhibit of these Inter-phones, as well as many other electric specialties of interest to mill owners, manufacturers, managers and operatives.

#### Charlotte Manufacturing Company.

The Charlotte Manufacturing Co., of Charlotte, will in space No. 103 have an exhibit at Greenville, of reeds and card clothing, which they manufacture.

In this exhibit, they will have a card clothing machine making cylinder fillet.

They are the only manufacturers of Card Clothing south of Philadelphia, and it should be of interest to all cotton manufacturers to see the quality of the material which they are producing.

## Ashworth Brothers, Inc.

### Tempered and Side Ground Card Clothing

Tops Reclothed.

Lickerins Rewound.

Cotton Mill Machinery Repaired

12 to 18 West Fourth St., Charlotte, N. C.

240 River Street, Greenville, S. C.

127 Central Avenue, Atlanta, Ga.



# DISCUSSIONS BY PRACTICAL MEN

## Contest Rules.

The following are the rules which will govern the contest for the best practical paper on "Cause and Prevention of Uneven Yarns" which will be run by the Southern Textile Bulletin during December 1915.

(1.) Articles must not be longer than three full columns.

(2.) Articles must be signed with assumed names but the real name and address of the writer must be known to us.

(3.) The subject "Cause and Prevention of Uneven Yarn" will include anything that has a bearing upon the subject even to the growing, picking and ginning of the cotton.

(4.) Articles must be original and articles that include paragraphs or sections of former articles on this subject will be thrown out. The contestants and all of our readers will be requested to call our attention to any articles that show evidence of having been copied.

(5.) Articles will be published by us in the order received and the judges will be instructed that where two are of equal merit the decision shall be given to the one received first.

(6.) No article which is received after Dec. 15th 1915 will be considered in the contest.

(7.) The contest will be decided by seven practical men who acting independently of each other shall read the article and give us their opinions relative to which is the best and second best. A vote for first place will count (1) and a vote for second place will count one half (½).

(8.) The article receiving the largest number of the judges votes will be declared the winner and its writer will receive \$10.00. The writer of the article which receives the second largest vote will receive \$5.00.

(9.) After the contest the articles will be printed in book form and two copies presented to each contestant.

## Arcade-Victoria Fair Was Fine.

The third annual Arcade-Victoria Mill Village Fair was held Saturday at the Arcade Mill. The exercises began at 10 o'clock, with music by the Carhartt Band.

J. E. Gettys, superintendent of the Victoria Mill, acted as chairman and introduced the speakers. Before beginning the speech-making prayer was made by Rev. F. P. Cox of West End Baptist church.

Clarence O. Kuester of Charlotte was the first speaker. He gave a most interesting talk on "Co-operation." He was followed by L. P. Hollis, editor of Mill Life of Greenville, S. C.; Miss Mary E. Frayser of Winthrop College, Prof. R. C. Burts, W. J. Roddey and Alexander Long.

After some music by the band, dinner was announced and a most delightful one of soup, barbecue

meats and all other good things was served in picnic style and much enjoyed.

The exhibits were fine in every particular and, as Mr. Kuester stated "you never see better although you may see larger amounts."

The afternoon was taken up with an athletic program, which was enjoyed by the participants and the spectators.

At the Arcade-Victoria Mill Fair Saturday, Superintendent John E. Gettys read the following report:

"Besides what you have seen on your visit to the different exhibits we wish to call your attention to the progress and development that have been made in other lines, and which do not show in these exhibits.

"By drainage of all stagnant pools, the removing of all garbage, cans, etc., the uses of disinfectants and oil, fly traps and systematic weekly clean up days we have been able

Arcade, 104 . . . . . 6,888  
Victoria No. 2, 35 . . . . . 1,477

## Goods Canned

Arcade . . . . . 1,831 quarts  
Victoria . . . . . 1,688 quarts  
Approximated yield . . . . . 50 Bu.

## Irish Potato Club

Community gardens . . . . . 66  
"Plants distributed for fall gardens 2,500.

17 varieties of vegetables low being grown in mill village gardens:

Cabbage, Collards, Turnips, Root-abaga, Beets, Rape, Kale, Mustard, Onions, Lettuce, Raddish, Spinach, Carrots, Salsifa, Parsnips, Pepper, and Celery.

The mill village demonstrator has put out 225 shade trees; also placed hedge around office and church.

Large quantities of flower seeds have been distributed, as the beautiful exhibit in the exhibition building demonstrates. The co-operation of the ladies of the two villages along this line is very gratifying.

**Kindergarten**—With the co-operation of the National Kindergarten Association of New York City, the management of the mills have secured, and now have in active operation a kindergarten for the children. This department is under the direct supervision of Miss Addie Bryan, and the general supervision of Prof. R. C. Burts, Supt. of the city schools.

**Schools** We have the best schools of any city our size in the South and the Arcade-Victoria school is fortunate in having as teachers Miss Mary Love and Miss Evelyn Frew, very efficient in this work, and loved by both parent and child. We have three grades, the first, second and third and an enrollment of ninety, which shows that the parents recognize the importance of educating their children.

**Night School**—We have a night school for those that work in the mills, and are unable to attend the



SCENE AT ARAGON (S. C.) COTTON MILL FAIR, OCTOBER 2ND, 1915.

to practically eliminate both the mosquito and pesty house fly.

"The success of the weekly clean up day is best demonstrated from the fact that the city of Rock Hill has adopted this system.

"All mill village homes have been equipped with electric lights and at a very small cost to employees. Also a large number of the homes have city water connection, and preparations are being made to extend this feature.

"Under the department of the tomato demonstration work, instituted by Prof. James L. Carbery, Agent U. S. Government, and now under the direct supervision of Mr. J. M. Ferguson, local demonstrator, we have accomplished the following:

## Tomato Garden for 1915.

Gardens. Pounds.  
Victoria, 120 . . . . . 6,901

Quantities of Rose bushes, fruit trees, grape vines, figs, berries and shrubberies have been planted around the homes of the mill villages.

## Comparison.

Total canned goods in 1913, 763 qts.  
Total canned goods in 1914 326 sts.  
Total canned goods in 1915, 3,519 qts.

An attractive building at each village has been given to the respective domestic science clubs under the direction of Miss Mary Hickson, Miss Hickson has been employed by the amnagement of the two mills and gives her time assisting the ladies in Culinary Art and Art needle work. The exhibits made by the children in booth No. 10 speaks for the efficiency of this department. Miss Hickson is also in charge of booths No. 1 and 2 in the exhibition building.

day school. We had an enrollment of 60 last session, and expect this session, which opens Monday night, the 11th, to show an enrollment of 75. There are plenty of men and ladies, parents, that are attending this school, and we hope to eliminate those that can not read and write.

The night school is under the direct supervision of Misses Abbie Bryan and Mary Hickson, and general supervision of Prof. R. C. Burts of the city schools.

**Athletics**—The interest taken in the athletics of the village is very gratifying. We have been fortunate in securing the direct supervision of the Y. M. C. A. secretaries of the city. Our local playground directors, Will Dill and Chas. Moss, have developed some special experts that

(Continued on Page 16).



# SOUTHERN TEXTILE BULLETIN

Offices: Room 912 Realty Building, Charlotte, N. C.

Published Every Thursday By

Clark Publishing Company

DAVID CLARK, Managing Editor

D. H. HILL, Jr., Associate Editor

## SUBSCRIPTION.

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## ADVERTISING.

Advertising rates furnished upon application.

Address all communications and make all drafts, checks and money orders payable to the Clark Publishing Company, Charlotte, N. C.

Entered as second class matter March 2nd, 1911, at the post office at Charlotte, N. C., under the Act of March 3d, 1879.

THURSDAY, OCTOBER 14, 1915.

### Southern Textile Exposition.

Although the Executive Committee of the Southern Textile Exposition were able to obtain a considerable amount of additional space, it has all been contracted for and late applications will have to be refused, for there is nowhere to put them.

The truth is, that the Southern Textile Exposition is about four or five times as large as was originally anticipated and the Committee has been very fortunate in securing the additional floor space that was recently required.

We endeavored some time ago to get all publications to mutually agree to withdraw and give their space to exhibitors, but only three of them would consider such a plan.

Acting independently we gave up our space to a machinery exhibitor and believe that the other publications should have done likewise.

Our action was in interest of the Exposition, and we are willing to yield to the other journals any advantage which they may have over us by reason of having booths, while we have none.

We will be represented at Greenville by David Clark, managing editor, and J. M. Williams, one of our traveling representatives, both of whom will be glad to meet our friends, and we will in a later issue name some place as our headquarters.

### Uniform Laws.

We are usually in accord with policies of our esteemed contemporary, Fibre and Fabric of Boston, Mass., and therefore regret to note the following in one of their recent editorials:

"While mills are fairly well occupied, there is plenty of time for serious thought on the matter of laws, and good effort should be directed by mill interests from managers to operatives by uniform labor legislation, particularly on hours and the so-called child-labor. There should be a Federal law making the working week the same in every State in the Union, and there should be a Federal child-labor law. Then all competing sections would start on the same basis, and the best effort would bring the greatest profits.

"After the war, with the present tariff the competition with foreign countries will be sharper than ever before, and American mills will have plenty to work and worry for to hold their home markets. While we are passing through this abnormal period, mill men should go into politics and prepare the way to standardize things here, preparatory to foreign invasion that will be the real thing."

No class of men have fought harder and more bitterly against the passage of laws regulating the hours of labor and the employment of

children than the cotton manufacturers of Massachusetts and the other New England States. They have protested year after year that the restrictions which were put upon them were unnecessary and unjust and they and their attorneys have produced facts and statistics showing that there were no ill effects from the laws which were previously in effect.

In spite of their claims and their protests, the agitators and the radical elements in their states were strong enough to place the laws on the books making such restrictions and the manufacturers have suffered thereby.

In the face of all that the New England manufacturers have said against such laws they are now being urged by Fibre and Fabric to see that similar restrictions are put upon the Southern mills and we consider it a policy of bad faith.

It reminds us of small pox patients endeavoring to spread the disease among the people of this town so that they would all feel as bad as himself.

The Constitution of the United States recognized states rights and Congress can not pass any law that boys of 14 years shall not be employed in North Carolina or that our mills shall not run more than 8 hours per day.

The passage of such a law would be promptly declared unconstitutional by the United States Supreme Court but those who seek to regulate our affairs have found a roundabout route through the Interstate Commerce Law and would accomplish by subterfuge what is directly illegal. They seek to prohibit interstate shipment of goods made by persons under certain ages or who work more than certain hours and thereby enact legislation which the framers of the Constitution never intended to permit.

Congress would say to us in violation of states rights that we can not ship our North Carolina cotton goods into New York if in their manufacture a big of sixteen years worked more than eight hours a day but that same Congress has lowered the tariff wall and would let goods come into New York manufactured by the pauper labor of Europe and Japan even if children of six years were employed in their factories for twelve hours or more per day.

Congress would regulate our affairs clearly in violation of the Constitution, and at the same time throw open the gates and give assistance to Europe and Japan.

The employment of a girl of fourteen years of age for ten hours per

day in the light work of the spinning room does her no injury. The New England manufacturers know this to be true, in fact, have argued it many times and defied any one to prove the contrary, yet some of them now favor making it the law for our mills.

They know and have often proved that no boy of over twelve is injured by doffing in the months when there are no schools and yet they seek to make it illegal for our boys.

We do not know what they think of the Federal Inspection feature but they should remember that it would apply to their mills as well as to ours.

While Fibre and Fabric has urged the New England manufacturers to put their influence behind such laws as the Palmer-Owen Bill proposed, we can not believe that any great number will show such bad faith in the face of the fights they have made in their own states against similar but local legislation.

The working and living conditions of the Southern cotton mill operatives are today vastly superior to those of the employees of the New England mills.

With a different class of people and different climatic conditions there is no reason why labor laws should be uniform.

No one can or has ever been able to show that our operatives are being injured by working under our present laws but on the other hand it is a matter of frequent comment that the personnel, appearance, and health of our operatives is steadily improving as is also their efficiency.

There is certainly no demand from the operatives for any change in the present laws.

We regret that our New England friends are so oppressed by the politicians of their states but do not think that it is any reason why they should seek to interfere with those who are more fortunate.

## Statement of Ownership.

Statement of ownership, management, circulation, etc., of the Southern Textile Bulletin, published at Charlotte, N. C., required by the act of August 24th 1912.

Editor, managing editor, and business manager, David Clark; publisher Clark Publishing Co., Charlotte, N. C.; owner David Clark; doing business under the name of the Clark Publishing Co., which is not incorporated.

No bonds or mortgages.

(Signed) David Clark.

Subscribed and sworn to before me this 30th day of September 1915.

Hudson C. Millar,  
Notary Public



## PERSONAL NEWS

C. E. O'Pry of Forest City, N. C., paid us a visit this week.

N. B. Davis has resigned as overseer of spinning at Modena Mills, Gastonia, N. C.

J. E. Taylor of Clifton, S. C., is now overhauling spinning at the Fountain Inn S. C.) Mfg. Co.

Ed. Millwood has resigned as overseer of spinning at the Ottaray Mills, Union, S. C.

Buck Lambert of Goldville, S. C., has accepted a position with the Watts Mills, Laurens, S. C.

Jas. Jones has accepted the position of overseer of spinning at the Fairmont (S. C.) Mills.

W. L. Carter has resigned as overseer of carding and spinning at the Social Circle, (Ga.) Cotton Mills.

Dock Tumblin, of Augusta, Ga., is now second hand in weaving at the Alta Vista (Va.) Mills.

E. B. Sanders of Hartwell, Ga., is now fixing looms at the Gluck Mill, Anderson, S. C.

J. A. Shinn, superintendent of the Central and Eva Jane Mills, Sylacauga, Ala., paid us a visit last week.

L. O. Bunton has been promoted from overseer of carding to superintendent of the Lauderdale Cotton Mills, Meridian, Miss.

G. R. Grice has been transferred from the office to overseer of spinning at Modena Mills, Gastonia, N. C.

Chas. Moore has accepted the position of bookkeeper and shipping clerk at Modena Mills, Gastonia, N. C.

F. M. McAbee formerly of Fountain Inn, S. C., is now second hand in spinning at the Carolina Mills, Greenville, S. C.

D. H. Colwell formerly of Fountain Inn, S. C., is now section hand in spinning at the Victor Mill, Greer, S. C.

J. H. Curry has resigned as overseer of roller shop at Belmont, N. C. and accepted same position at Lowell, N. C.

J. C. Thompson has resigned as loom fixer at the Tucapau (S. C.) Mills, to accept a similar position at the Apache Mills, Arlington, S. C.

B. F. Hughes of the Brandon Mills, Greenville, S. C., has been visiting at the Chiquola Mills, Honea Path, S. C.

Carl J. Shannon, a graduate of Clemson Textile School, is now designer at the Fairmont (S. C.) Mfg. Co.

A. S. Hammond has been promoted to the position of master mechanic at the Hartsville Cotton Mills, Hartsville, S. C.

E. C. Ricey has been promoted to the position of overseer of carding at the Hartsville Cotton Mills, Hartsville, S. C.

P. A. Cook and Geo. Miller have resigned their positions at Alta Vista Va., and returned to the Ivey Mill, Hickory, N. C.

W. V. Jones has accepted the position of overseer of carding and spinning at the Social Circle (Ga.) Cotton Mills.

J. A. Crow has resigned his position at the Monarch Mill, Union, S. C., to become section hand in carding at the Spartanburg (S. C.) Mill.

M. P. Petty, of Gastonia, N. C., has become night overseer of carding at the Sutherland Mfg. Co., Augusta, Ga.

W. J. Hamilton, of Gaffney, S. C., has accepted the position of overseer of carding at the Magnolia Mills, Charlotte, N. C.

Dewitt Leonard, second hand in weaving at the Alta Vista (Va.) Mill has been promoted to have charge of the sample room.

J. W. Crab, of Brenham, Texas, has accepted the position of overseer of carding at the Prendergest (Tenn.) Cotton Mills.

V. V. Kendrick has been promoted from second hand to overseer of carding at the Eva Jane Mills, Sylacauga, Ala.

Wm. G. Reynolds has resigned as general superintendent of the Lumberton, Dresden and Jennings Cotton Mills, Lumberton, N. C.

J. H. Barnhill formerly overseer of carding at the Florence Mills, Forest City, N. C. is now filling a similar position at the Lowe Mfg. Co., Huntsville, Ala.

J. H. Garrett has resigned as overseer of carding at the Profile Mill No. 1, Jacksonville, Ala., and accepted a similar position at the Selma (Ala.) Mfg. Co.

E. G. Madison has resigned as overseer of spinning at the P. H. Hanes Knitting Co., Winston-Salem, N. C., and accepted a similar position at the Roswell (Ga.) Mfg. Co.

A. F. Briggs of Greenville, S. C., but formerly overseer of carding at Ware Shoals, S. C., has accepted a similar position at the Grendel Mills No. 1, Greenwood, S. C.

J. E. Williams has resigned as second hand in spinning at the Jackson mills, Monroe, N. C., to accept a similar position at the Young-Hartsell Mills, Concord, N. C.

F. L. Drake has resigned his position as overseer of carding with the Hartsville Cotton Mills, Hartsville, S. C. to accept a similar position with the Winnsboro Cotton Mills, Winnsboro, S. C.

### ALBANY

Lubricates mill machinery without waste.



### GREASE

Send for samples and cup and try it. No charge. Write now.

YOUR DEALER SELLS ALBANY GREASE

ALBANY LUBRICATING CO., 708-10 Washington St., NEW YORK

C. H. Lockman has resigned as overseer of weaving at the Pelham (Ga.) Mills, and accepted a similar position at the Fitzgerald (Ga.) Cotton Mills.

H. W. Downey, who formerly held a position at the Riverside Mills, Augusta, Ga., will be overseer of carding at the new Hillside Cotton Mills, Lagrange, Ga.

F. J. Reynolds, formerly overseer of spooling, warping and slashing at the Texas Cotton Mills, McKinney, Texas, will be overseer of carding and spinning in the Blending Mill, of the Hillside Mills, LaGrange, Ga.

L. E. Bagwell has resigned his position as master mechanic at the Hartsville Cotton Mills, Hartsville, S. C., to accept a similar position with the Drayton Mills, Spartanburg, S. C.

#### W. A. Graham Clark Promoted.

W. A. Graham Clark has been promoted from manager of the Atlanta office of the Department of Commerce to a similar position at the Boston office.

He succeeds Commercial Agent F. L. Roberts who goes to Cleveland, to take charge of the foreign trade extension Chamber of Commerce of that city. W. L. Fairbanks of Washington takes Mr. Clark's place in Atlanta.

W. A. Graham Clark, who is a brother of the editor of the Southern Textile Bulletin was for a number of years Commercial Agent of the Department of Commerce, making two trips completely around the world and investigating and reporting upon the cotton goods trade of thirty-two of the forty-seven coun-

#### Hudson C. Millar, Secretary Treasurer North Carolina Cotton Manufacturers' Association.

At the last annual meeting of the North Carolina Cotton Manufacturers' Association it was decided to employ a secretary and treasurer who should devote all of his time to the work of the association.

The Executive Committee at a



meeting on Oct. 5th, elected to the position Hudson C. Millar, of Charlotte, N. C., who was formerly connected with the legal department of the Southern Power Co.

Mr. Millar is a young man of energy and ability and we believe that he will be able to perfect a strong organization among the cotton manufacturers of North Carolina.

TRADE MARK REGISTERED IN  
**NON-FLUID OIL**  
UNITED STATES PATENT OFFICE

#### OFFERS MANIFOLD ECONOMIES

**ECONOMY IN LUBRICANTS.** NON-FLUID OIL insures absolute freedom from waste for it cannot drip or spatter like fluid oils, and it outlasts the best greases.  
**ECONOMY IN FULL PRODUCTION.** Oil-stained "seconds" are impossible where there is no "thinning out" or spatter of lubricants.  
**ECONOMY IN POWER.** NON-FLUID OIL lubricates most efficiently without the friction drag of stiff greases, therefore it saves power.  
**ECONOMY IN REPAIRS.** NON-FLUID OIL keeps the bearings cool in shafting, engine, spinning, or any textile machinery and minimize wear in small bearing parts like travelers in twister-rings.  
**ECONOMY IN TIME.** NON-FLUID OIL requires the least attention of any known lubricant.

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Write for Bulletin "Lubrication of Textile Machinery."

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NEW YORK & NEW JERSEY LUBRICANT CO.

165 Broadway, New York.

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## MILL NEWS ITEMS OF INTEREST

**Seneca, S. C.**—The Seneca Plant of the Parker Cotton Mills is preparing to increase its boiler plant with two 100 H. P. Manning type vertical boilers.

**Enore, S. C.**—The Enore Mills Co. has been commissioned by the secretary of state with a capital of \$500,000 the petitioners are C. E. Graham, Allen J. Graham, Hamlin Beattie and Lewis W. Parker.

**East Lumberton, N. C.**—The Lumberton Cotton Mill is running on full time now. The mill is remodeling its dye house and putting in a new dyeing machine.

**Athens, Ga.**—The No. 2 mill of the Athens Manufacturing Company, on knitting yarns 18's to 0's, which has been closed down for several months past, on account of dull business, will open in a few days.

**Albemarle, N. C.**—The new mill of Wiscassett Mills will be known as No. 6 and will contain 18,000 spindles. The building will be two stories, 400X100 feet with a separate building 130X75 for finishing.

**La Fayette, Ga.**—The annual meeting of the stockholders of the La Fayette Cotton Mills will be held at the company's office, on Saturday, Oct. 16th. The report of the officers will show that the mill has had a very successful year.

**Stonewall, Miss.**—Stockholders of the Stonewall Cotton Mills of Stonewall Mass., have declared a dividend of 7 per cent. The directors of the mills have authorized the management to equip Mill No. 2 with sixty 40 inch automatic looms.

**Whitney, S. C.**—The Whitney Mfg. Co. has recently erected a new addition and has been stopped since July 3rd to install new machinery and make repairs. They expect to be ready to start again in full force about October.

The company is erecting 10 new houses for the operatives. They are being built on the bungalow styles.

**Anderson, S. C.**—The stockholders of the Toxaway mills held their annual meeting in the office of the company. The report of the president, Mr. B. B. Gossett, shows that the mills have experienced a satisfactory year when conditions are considered.

The board of directors elected to serve the ensuing year is composed of the following: W. H. Baldwin of New York, Summerfield Baldwin, Jr. of Baltimore; S. Craig Mitchell of Philadelphia; W. C. Cleveland of Greenville, who succeeds Thos. Hildt of New York, resigned; Alfred Moore of Welford, Jas. P. Gossett of Williamston, and Jas. D. Hammett, D. A. Ledbetter and B. B. Gossett of Anderson.

**Statesville, N. C.**—Inquiry about town reveals the fact that there is a general renewal of activity in all lines of industrial life about town. The cotton mills are running on full time, all furniture factories running and with some over time. The shoe case factories, veneer plant, foundries, glass works and the like are all busy and the report is made that increasing orders are coming in.

**Anderson, S. C.**—The annual meeting of the board of directors of the Toxaway Cotton mills was held in the office of the company at 12 o'clock Saturday. The out-of-town members of the board present were: Mr. W. C. Cleveland of Greenville and Mr. Alfred Moore of Welford.

The officers were re-elected for another year as follows: B. B. Gossett, president and treasurer; Jas. P. Gossett, vice president, and J. W. Tribble secretary.

The annual meeting of the stockholders of the mill was held Wednesday.

**Wahalla, S. C.**—The Wahalla plant of the Monaghan Mills is closed for a week while certain repairs are being made. New boilers are being placed and other improvements are being made. Owing to these contemplated changes, the mill did not close down during the summer for a week's rest for the operatives, but waited until now, in order that the changes might be made without unnecessary loss to the operatives. The mill will be in full operation again next Monday.

**La Fayette, Ga.**—The annual meeting of the stockholders of the Union Cotton Mills was held Wednesday, a large amount of the stock being represented. The report for the past year showed that the mill is fast reducing its indebtedness and had enjoyed a successful year.

The same directors—H. S. Probasco, J. P. Shattuck, J. E. Patton, Wm. McWilliams, G. W. Davenport, Z. C. and W. A. Enlow—were elected to serve for the ensuing year. The directors decided not to name a president, but to continue the management of the mill in an executive committee consisting of H. S. Probasco, J. E. Patton and J. P. Shattuck. J. P. Shattuck was elected vice-president and W. A. Enlow secretary and treasurer.

**Albermarle, N. C.**—Holbrooks & Bradshaw, contractors, of Salisbury, have been awarded contracts for the erection of the cotton mills for the Wiscassett Mills Company and the Efrid Manufacturing Company at this place. The contractors are advertising this week for 150 hands, carpenters and brick layers, and work will begin at once.

The dimensions of the new Efrid mill, to be erected on the west side of the old mill, facing the South-bound Railroad, will be 100X360, and will contain two stories. When completed it will house pickers, combers, winders, and spinning frames—in fact, all the machinery necessary to handle raw cotton and turn out the finished product, yarn. The building, complete, will cost in the neighborhood of \$500,000.

There will be in the Efrid and Wiscassett plants, combined, over 160,000 feet of floor space.

**Calhoun Falls, S. C.**—The annual meeting of the board of directors of the Calhoun Falls Cotton Mills was held in the office of Sullivan Hardware Company at noon. The meeting of the stockholders was held at Calhoun Falls, at which time Jas. P. Gossett, as president, submitted a very gratifying report as to the condition of the mills.

The board of directors is composed of Jas. P. Gossett of Williamston, Ernest M. Lander of Calhoun Falls, C. S. Sullivan and W. F. Cox of Anderson, William Whitman of Boston, George M. Whitin of Whitinsville, Mass., and George A. Draper of Hopedale, Mass. This board was re-elected.

At the meeting the officers were re-elected for another year, as follows: Jas. P. Gossett, president and treasurer, and Ernest M. Lander, secretary and assistant treasurer.

**Winston-Salem, N. C.**—The P. H. Hanes Knitting Company has let the contract to the Sanitary Engineering Company of Charlotte for the installation of 100 modern residential sewerage disposal outfits, which are now being installed at each of the attractive operative's houses, in the Hanes Company's village of Hanes.

There is now under construction at this place a new and modern yarn mill and in addition to the present 50 operative houses, the Hanes Com-

pany is building 50 more houses for their employees.

**Great Falls, S. C.**—Arrangements have been completed by the Republic Cotton Mills to more than double their plant. At a meeting of stockholders in New York Monday all details were arranged for increasing the capital stock from \$600,000 to \$1,200,000, all paid-in in spot cash and all common stock.

The new plant will be handsome and modern and will have 40,000 spindles and 1,000 looms. Three hundred residences for operatives will be provided, together with a welfare house. Every home will be equipped with interior sewerage, hot and cold running water, electric lights, and all the other appurtenances of a modern dwelling. Each house will have from four to six rooms.

R. S. Mebane of Great Falls, is president of the mills and in active charge. T. B. Fuller of Durham, N. C., is vice president; H. B. Mebane, a brother of President Mebane, is secretary and treasurer and lives at Great Falls. J. B. Duke is a large stockholder.

The Republic Mills, with 27,000 spindles and 650 looms, are operated by electric power obtained from the Southern Power Company, which has a mammoth dam near by. A fine grade of print cloths being made. The company was first chartered under the laws of New Jersey. It is now chartered under the laws of South Carolina.

### Names Receiver For Brookford Mills.

The Brookford Mills, Brookford, N. C., operating a big \$500,000 cotton mill, have been thrown into the hands of a receiver, Judge James E. Boyd of the United States District court, signing an order to that effect, naming H. J. Holbrook, formerly secretary and treasurer of the company, temporary receiver. The action was voluntary.

Proceedings of a like nature were instituted in the State court some time ago by Messrs. J. A. Martin and Wade H. Shuford of Hickory. Accountants had been at work on the books under order of Referee W. D. Turner of Statesville, and a hearing was set for October 12 before the referee at Hickory. The action of the Federal court judge of course stops all proceedings in the State courts.

The temporary receiver was authorized to continue the operation of the mill and to conduct the store, also to issue receiver's certificates not to exceed \$50,000, each certificate to sell for par and to be in denominations of \$1,000 each. It is understood that A. D. Julliard & Co., of New York, selling agents of the mill, have agreed to take up the certificates which will be redeemable on or before January 1, 1916.

Judge Boyd designated Tillett & Guthrie of Charlotte to represent

HEADQUARTERS  
SOUTHERN TEXTILE ASSOCIATION MEETING  
November 2d to 6th  
OTTARAY HOTEL  
GREENVILLE, S. C.



the creditors and A. A. Whitener of Hickory to represent the bankrupts. The assets of the corporation were placed at about \$500,000 and the liabilities at a similar amount.

The mill will continue to run as before, but it will probably be sold under the hammer to the highest bidder. Permanent receivers will probably be appointed at an early date.

**Official Program Southern Textile Association; Southern Textile Exposition.**

**Tuesday, November 2nd.**

"Mill Presidents' and Treasurers' Day."

9:00 A. M. to 11:00 A. M.  
Grand concert at Exposition Building, First Regiment Band, N. G. S. C. of Williamston, S. C.

9:30 A. M.  
Official opening of Southern Textile Exposition.

10:00 P. M.  
Exposition closes.  
Dancing at Dukeland Park, 9:30 P. M., to 12:00 midnight.

**Wednesday, November 3d.**

"College Day."

9:00 A. M. to 10:00 A. M.  
Grand Concert at Exposition Building, First Regiment Band, N. G. S. C. of Williamston, S. C.

9:30 A. M.  
Opening of Southern Textile Exposition.

3:30 P. M.  
Football Game, Mills' Park, Furman University vs. Presbyterian College.

9:30 P. M. to 12:00 Midnight.  
Dances complimentary to Exposition visitors: Cleveland Hall, Music by First Regiment Band, N. G. S. C.; Dukeland Park, Music by Greenville Concert Band.

10:00 P. M.  
Exposition closes.

**Thursday, November 4th.**

"Southern Textile Association Day."

9:00 A. M. to 10:00 A. M.  
Grand Concert at Exposition Building, Newberry Cotton Mills' Band.

9:30 A. M.  
Opening of Southern Textile Exposition.

12:00 Noon to 1:00 P. M.  
Opening meeting of Southern Textile Association, Cleveland Hall. Prayer by Dr. Geo. W. Quick, Greenville, S. C.

Address of Welcome on behalf of South Carolina, Hon. R. I. Manning, Governor.

Address of Welcome on behalf of Greenville, Hon. C. S. Webb, Mayor.

Address of Welcome on behalf of S. C. Cotton Mfg's Association, Capt. Ellison A. Smyth, Pres.  
Response to Addresses of Welcome, A. M. Dixon, Gastonia, N. C.



**Speaking of Humidifier Repairs**

We believe in making a thing to sell so that it doesn't need much attention; but when that attention is needed it will not be dreaded by complicated mechanism.

**THE TURBO HUMIDIFIER**

is made to wear—and easy to repair. I saw a green man who had never seen the Turbo system before get up on a step ladder, remove and replace a head in less than four minutes.

Further, we do not make our money in repair parts. We can't. There are too few needed.

Get Turbofied—and satisfied.

**THE G. M. PARKS CO.**

Fitchburg, Mass.

Southern Office Commercial Building, Charlotte, N. C.

J. S. COTHRAN, Manager.

**TEXTILE BOOKS**

**Carding and Spinning**, by G. F. Ivey.—Price \$1.00. A practical book on carding and spinning which will be found useful.

**Carding Lessons for the Mill Boy**—Vaughan—Price \$1.00. A practical carder. Written especially for young carders.

**Cotton Mill Processes and Calculations**—By D. A. Tompkins—Price \$5.00. An elementary text book for textile schools and self-instruction. Every operation in the ordinary cotton mill is explained simply and with the use of illustrations. Contains much information of value to the experienced man. 395 pages; 33 illustrations; cloth.

**Plain Series of Cotton Spinning Calculations**—by Cook—\$1.00. A unique and valuable book giving the calculations used in mixing, carding, drawing, and spinning cotton, also original drawings showing points where changes of drafts, speeds, etc., should be made. Setting, production, doublings. 90 pages; freely illustrated; cloth.

**CLARK PUBLISHING COMPANY**

CHARLOTTE, N. C.

9:00 to 12:00 Midnight.

Reception at Ottaray Hotel to Exhibitors, Members of Southern Textile Association and visitors. (Informal).

Music by Newberry Cotton Mills' Band.

10:00 P. M.

Exposition closes.

Dancing at Dukeland Park, 9:30 P. M. to 12:00 midnight.

**Friday, November 5th.**

"Southern Textile Association Day."

9:00 A. M. to 10:00 P. M.

Grand Concert at Exposition Building, Newberry Cotton Mills' Band.

9:30 A. M.

Opening of Southern Textile Exposition.

12:00 Noon to 1:00 P. M.

Meeting of Southern Textile Association, Cleveland Hall.

Presidents' Address, A. M. Sherard, Williamston, S. C.

"Manufacture of Fine Yarn," C. N. Poore, Louisville, Ky.

"Causes of Weave Room Inefficiency," George Harrison, Greenville, S. C.

9:30 to 12:00 Midnight.

Dances complimentary to Exposition visitors, Cleveland Hall, Music by Newberry Cotton Mills' Band; Dukeland Park, Music by Greenville Concert Band.

10:00 P. M.

Exposition closes.

**Saturday, November 6th.**

"Southern Textile Association Day."

9:00 A. M. to 10:00 A. M.

Grand concert at Exposition Building, Newberry Cotton Mills' Band.

9:30 A. M.

Opening of Southern Textile Exposition.

12:00 noon to 1:00 P. M.

Meeting of Southern Textile Association, Cleveland Hall.

"National Labor Legislation," Hon. J. F. Byrnes, Congressman, Aiken, S. C.

Business Session.

Adjourn.

10:00 P. M.

Exposition closes.

**Chicora College Will Be a Hotel During Exposition**

R. L. Dodenhoff will operate Chicora College in Greenville S. C. as a hotel during the week of the Southern Textile Exposition and reservations can be made at any time. He can accommodate about 300 and his rates will be \$1.00 for rooms and 50 cents for meals. Chicora College is located close to the business district of Greenville and not very far from the Exposition Hall. It was until last year used as a girls college but is not in use this year and the rooms being still furnished they can be used to relieve the crowded hotel facilities during the Exposition.

**AMERICAN MOISTENING COMPANY**

BOSTON, MASSACHUSETTS

WILLIAM FIRTH, President

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**THE ONLY PERFECT SYSTEM OF AIR MOISTENING COMINS SECTIONAL HUMIDIFIER**

JOHN HILL, Southern Representative, 1014 Healy Building, ATLANTA, GEORGIA



## Cotton Goods Report

New York.—Cotton goods markets were very firm last week, with price revisions showing constantly in all lines. There was a steady demand for goods to meet the needs of both the retail and jobbing trade. Buyers wanted goods for both prompt and nearby forward deliveries, and are very anxious to get prompt shipments. Neither mills or selling agents have large stocks on hand and goods to be made up are higher than they were at the close of last month. Mills are asking much higher prices for goods sold on contract. Stocks of goods are short in many lines and buyers are obliged to place future orders for such goods. The new lines of denims shown by some mills are sold ahead into February, indigo denims not being obtainable for future deliveries. Additional supplies of tickings for spot delivery are very scarce, and buyers are ordering these ahead. Certain constructions of duck are also scarce. Sales of bleached cotton goods for forward delivery are being made at advances, but many branded lines are still held at value. Brown drills, heavy sateens and other heavy goods are being taken by manufacturers at the higher prices.

Fine goods are held at new high levels and new prices are being paid for these goods for February delivery. The converters say that they are not getting higher prices in keeping with the advance made on gray cloths, but at the same time they realize new conditions have come in staple cotton for manufacturing purposes, and they are trying to provide against advances that will have to be obtained.

It is said that the printers are well supplied with business, and that jobbers and manufacturers have contracted for large amounts of goods to be delivered before February. Finishers are generally reported as being very busy.

Bag manufacturers have placed a large amount of business lately and are now looking for more heavy weight goods. They are also taking more light weight cloths.

A fairly large amount of business was put through the Fall River print cloth market last week. The inquiry continued good and the market held very firm. Increases of an eighth of a cent were reported on all styles, and in many cases the advance was a full quarter cent. Mills would have doubtless handled a much larger business had it not been for the unsettled condition of the cotton market. They are still unwilling to sell too far ahead. The inquiry and trading covered a variety of styles, with wide and medium width goods still figuring in the bulk of the trading. Inquiry for narrow goods was not quite so good as it was during the previous week, though some sales were made. Contracts made last week usually ran to about the end of the year. Some business has been placed for January delivery, but very

little beyond that time. Buyers were willing to go ahead at last week's quotations well into February and March, but manufacturers are not at all anxious to sell that far ahead.

Prices on cotton goods at the close of last week were as follows:

Print cloth, 28-in., std 3 1-2	—
28-in., 64x60s	3 3-8
Gray goods, 39-inch,	
68x72s	5 3-8 5 1-2
38 1-2-inch, 64x64s	4 3-4
4-yard, 80x80s	6 1-2
Brown drills, std	7
Sheetings, south'n, std 7 1-2	—
3-yard, 48x48s	7 7 1-4
4-yard, 56x60s	6
4-yard, 48x48s	5 1-4
4-yard, 44x44s	5 1-2
5-yard, 48x48s	4 3-4
Denims, 9-ounce	14
Selkirk, 8-oz. duck	11 1-2
Oliver, Extra, 8-oz.	11 1-2
Hartford, 11-oz. 40-in	—
duck	15 1-4
Woodberry sail duck	27 1/2%
Mt. Vernon wide duck	35%
Ticking, 8-ounce	11 1-2
Standard prints	5 1-4
Standard gingham	6 1-4
Fine dress gingham	7 1-2 8 3-4
Kid finished cambrics	4 1-4 4 1-2

### Hester's Weekly Statement.

Comparisons are to actual dates not to close of corresponding weeks. In thousands bales.

In sight for week	466
In sight same 7 days last year	333
In sight for the month	512
In sight same date last year	392
In sight for season	2,092
In sight same date last year	1,197
Port receipts for season	1,338
Port receipts same date last year	607
Overland to mills and Canada for season	60
Overland same date last year	31
Southern mill takings for seasons	166
Southern same date last year	255
Interior stocks in excess of August 1	229
Interior last year	305
Foreign exports for week	148
Foreign same 7 days last year	80
Foreign for season	782
Foreign same date last year	220
Northern spinners' takings and Canada for week	58
Northern same 7 days last year	57
Northern for season	236
Northern at same date last year	222

### Statement of World's Visible Supply

Total visible this week	4,473
Total visible last week	4,176
Total visible same date last year	3,068
Of this the total American this week	3,313
Of this the total American last week	3,043
Of this the total American last year	1,885
All other kinds this week	1,160
All other kinds last week	1,132
All other kinds last year	1,183
Visible in U. S. this week	826



**Our Spinning Rings** SINGLE OR DOUBLE FLANGE  
START EASIEST, RUN SMOOTHEST, WEAR LONGEST  
**Pawtucket Spinning Ring Co.**  
CENTRAL FALLS, R. I.

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**Cotton Yarns Mercerized and Natural**

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## The Desirability of the South

as the place to manufacture cotton goods is illustrated in the increase of 67% quoted by census department. We can offer attractive situations for those desiring to enter this field.

**J. A. PRIDE**

General Industrial Agent Seaboard Air Line Railway

NORFOLK, VIRGINIA.

## BOSSON & LANE

—Manufacturers—

CASTOR OIL, SOLUBLE OIL, BLEACHING OIL, TURKEY  
RED OIL, SNOWFLAKE, SOLUBLE GREASE  
FLAXHORN, ALPHA SODA, OLEINE  
B. & L. ANTI-CHLORINE, SOLUBLE WAX  
BLEACHERS BLUES

Works and Office

Atlantic, Mass.

Visible in other countries this week 2,706 heard of no actual orders of this kind being placed and are not taking the inquiries seriously.—Journal of Commerce.

### Export of Sweater Coats

Sweater coat selling agencies are almost daily receiving inquiries for large quantities of goods for export, presumably for war purposes. One inquiry yesterday concerned 500,000 coats, it was said, at a price of about \$9 a dozen, to be made of 90 per cent wool. But the trade has so far

### Drills for India.

Orders from India have been placed in the New York market the last few days for between 400 and 500 bales of Pepperell drills, on a basis of 7 cents.—New York Commercial.



# The Yarn Market

Philadelphia, Pa.—Cotton yarn prices continued to go higher last week as quotations on raw cotton advanced. It is still very hard to get an accurate idea of values here, as the markets have been very irregular and there has been a great diversity in prices. Dealers were unable, in a great many cases, to quote prices saying that each offer would have to be submitted to the mill. Prices rarely remained unchanged ever for a single day. Spinners' quotations were still ahead of prices in the market here as far as actual prices went. Deliveries on old contract were good last week, manufacturers taking in the yarn as it was ordered. Higher prices were regarded as being responsible for the willingness to accept deliveries by some manufacturers who some time ago were asking that they be held up. The receipts of yarn for the South showed some decrease, and the most of it coming in this market is said to be consigned.

While the demand for combed yarns was not strong last week, quotations on both single and two-ply yarn were marked up from 2 to 4 cents a pound. Knitters are not taking much mercerized yarn now, on account of not being able to get dyes, but weavers are taking good quantities of these yarns. Carded knitting yarns remained unsettled last week. Knitters were seemingly running very well, though the hosiery mills are held back a great deal by lack of dyes. There was a good demand for small quantities of carded yarns for spot and prompt delivery, and some call for yarns for future delivery. The inquiry for carded knitting yarns was better during the week, but the high prices kept down sales.

## Yarn Quotations.

The following prices were quoted in New York on Monday, October 11.

### Southern Two-Ply Skeins.

4s to 8s	17	—19
10s to 12s	10	—20
14s	20	—21
16s	20	—21
20s	22	—
24s	22	1-2
26s	23	—23 1-2
30s	25	—
36s	30	—
40s	32	—34
50s	38	—
60s	—	—45
3-ply 8s upholstery	18	—
4-ply 8s upholstery	18	—

### Southern Single Skeins.

4s to 8s	17	—18
10s	19	—
12s	20	—
14s	20	—
16s	20	—
20s	21	1-2-22
22s	22	—
26s	—	—23
30s	—	—26

### Southern Single Chain Warps.

10s to 12s	19	—20
14s	19	1-2-20
16s	20	—
20s	21	1-2-22
22s	22	—22 1-2
24s	—	—23
26s	23	—23 1-2
30s	—	—26
40s	—	—35

### Southern Two-Ply Chain Warps, Etc.

8s to 10s	18	—19 1-2
12s to 14s	20	1-2-21
2-ply 10s	—	—21 1-2
2-ply 20s	22	—22 1-2
2-ply 34s	23	—23 1-2
2-ply 20s	—	—24
2-ply 30s	—	—26
2-ply 40s	35	—36
2-ply 50s	—	—42
2-ply 60s	—	—45

### Southern Frame Cones.

8s	20	—
10s	20	—
12s	20	—
14s	20	1-2
16s	21	—
18s	21	1-2
20s	21	1-2
22s	21	—22
24s	22	—
26s	23	—
22s fleece colors	22	—
30s	24	—
40s	31	—

### Eastern Carded Cops.

10s	21	—
11s	21	1-4
12s	21	1-2
14s	22	—
16s	22	1-2
18s	23	—
20s	22	1-2
22s	24	—
24s	24	1-2
26s	25	1-2
28s	26	1-2
30s	28	—

### Eastern Carded Peeler Skeins and Warps.

20s, 2-ply	26	1-2
22s, 2-ply	27	—
24s, 2-ply	28	1-2
26s, 2-ply	29	1-2
30s, 2-ply	31	1-2
40s, 2-ply	35	1-2
45s, 2-ply	36	1-2
50s, 2-ply	46	—

### Busy Cotton Mills in India

Cotton mills in India produced 181,000,000 pounds of yarn during the three months, April to June, 1915, compared with 174,000,000 pounds in the 1914 period and 169,000,000 pounds in the 1913 period. Woven goods manufactured totaled 82,000,000 pounds in April-June, 1915, compared with 69,000,000 pounds and 66,000,000 pounds in the corresponding quarters of 1914 and 1913. Most of the yarn spun runs below 26s.—Consular Reports.

## Edison and the Electric Incandescent Light.

(Continued from Page 7.)

ordinated effort. What is known as Mazda Service has therefore been established, the results of which are concretely embodied in each Mazda lamp.

This service, with its headquarters at the Schenectady laboratory, draws upon the entire scientific, engineering and manufacturing skill of scores of laboratories and lamp factories. It studies the materials and methods at each factory, examines their test records, makes its own check tests, gathers and compares the scientific data obtained at each laboratory, systematizes the mass of information thus obtained and presents it to the study of the experts of the laboratory staff, and then transmits the carefully sifted results to each factory entitled to the service, so as to enable each factory to embody in its product the combined manufacturing experience of the largest lamp factories and the scientific knowledge of the experts most skilled in lamps and lighting.

Edison has emphasized the value of continuous research work and given us a vision of the future in the science and art of electric lighting. "No invention is perfect," he says, "and the incandescent lamp is not an exception. Light without heat is the ideal, and that is still far off. The electric incandescent lamp of today is the cheapest form of filament that has ever been produced, but some day it will be cheaper and colder than it is. There is a good deal of truth in the saying that the firefly is the ideal. It is, so far as coldness goes. But its color is against it. You couldn't use a thousand candle firefly to match colors, and you wouldn't want the insect to light up a street, because his light would be a hideous greenish yellow. But some day we will get reasonably near the firefly for efficiency without copying his disagreeable color. The task needs much investigation, much research of the kind we did in 1879. The research that we began then is still going on, and it always will go on. Somehow, each new discovery opens up the way to another."

## New Cotton Mill for India

A new cotton mill, with 2,500 spindles and 500 looms, with an estimated annual outturn of 1,425 long tons of yarn and 800 long tons of cotton cloth, is to be established at Bangalore, in the Native State of Mysore, southern India. The capital required to run the mill is about \$519,000.

There are at present two cotton mills in Bangalore, and the subject of starting another mill has been under consideration by the Government for the past two years. It was first planned to establish the mill at Devangere or Harihar, but subsequent inquiries proved that Bangalore was the most suitable place. The electric energy available at Bangalore offers a convenient source of power, and facilities for securing labor are considered better there than elsewhere in Mysore.

## THE NORTH CAROLINA COLLEGE OF AGRICULTURE and MECHANICAL ARTS

Young men seeking to equip themselves for practical life in Agriculture and all its allied branches; in Civil, Electrical and Mechanical Engineering; in Chemistry and Dyeing; in Textile Industry and in Agricultural Teaching will find excellent provision for their chosen careers at the State's Industrial College. This college fits men for life. Faculty for the coming year of 65 men; 767 students; 25 buildings. Admirably equipped laboratories in each department.

For catalogue, write

E. B. OWEN, Registrar,  
West Raleigh, N. C.

### "The Clinchfield Route"

## CAROLINA, CLINCHFIELD & OHIO RAILWAY

and  
Carolina, Clinchfield & Ohio Railway  
of South Carolina.

EFFECTIVE AUGUST 9, 1915.

Eastern Standard Time

### Southbound

Lv. Elkhorn City, Ky.	3:00	*
Lv. Haysi, Va.	3:37	
Lv. Fremont, Va.	4:10	
Lv. Dante, Va.	4:55	*8:30
Lv. St. Paul, Va.	5:30	8:52
Lv. Speer's Ferry, Va.	7:25	10:17
Lv. Johnson City, Tenn.	9:30	11:45
Ar. Erwin, Tenn.	10:30	*12:25
Lv. Erwin, Tenn.	5:00	*12:35
Lv. Kona, N. C.	7:18	2:04
Lv. Altapass, N. C.	8:10	2:45
Lv. Marion, N. C.	9:50	3:55
Lv. Bostic, N. C.	11:33	4:57
Ar. Spartanburg, S. C.	*1:30	*6:05

### Northbound

Lv. Spartanburg, S. C.	4:50	*11:00
Lv. Bostic, N. C.	6:09	12:10
Lv. Marion, N. C.	7:05	1:05
Lv. Altapass, N. C.	8:20	2:20
Lv. Kona, N. C.	8:57	3:03
Ar. Erwin, Tenn.	10:30	*4:30
Lv. Erwin, Tenn.	7:45	*4:35
Lv. Johnson City, Tenn.	8:30	5:15
Lv. Speer's Ferry, Va.	10:35	7:02
Lv. St. Paul, Va.	12:17	8:30
Lv. Dante, Va.	12:40	8:50
Lv. Fremont, Va.	1:25	
Lv. Haysi, Va.	1:55	
Ar. Elkhorn City, Ky.	*2:30	

\*—Daily.

A. M. light face type.

P. M. heavy face type.

Patrons are requested to apply to nearest agent for definite information, or to

CHAS. T. MANDEL,  
Asst. Gen'l Pass. Agent.

J. J. CAMPION,  
V.-Pres. and Traffic Mgr.,  
John City, Tenn.

In regard to the question whether there is room for an addition cotton mill in the State the report prepared by the Director of Industries and Commerce is in the affirmative.

Cotton mills in southern India are generally continuing to operate. There are 20 mills in Madras Presidency and Mysore, 3 in the state of Hyderabad, and 3 in the French colony of Pondicherry. The Madras mills sell largely to Burma and also at present have extensive Government orders for textiles.

"Lenny, you're a pig," said a father to his five-year son. "Now Lenny, do you know what a pig is?"

"Yes, sir," replied the son; "a pig is a hog's little boy."—Exchange.



## Nearly 100 Mills are saving money in their spinning

Almost 100 cotton mills are running their Spinning with **Chapman Ball Bearing Spindles**. The history of cotton manufacturing has been marked by individual and important improvements in particular processes. Start with Arkwright's spinning jenny, and study the course of the industry from that date to the present time and several outstanding machinery improvements and inventions will be noted.

A few years from now, we venture the prediction, manufacturers will admit that one of the most important inventions from a money saving standpoint is the **Chapman Ball Bearing Spindle** because it saves at least 30% power and makes the yarn at least 15% stronger.

There is not a claim made for the Chapman Ball Bearing Spindle that cannot be fully substantiated and proven in actual mill practice.

Manufacturers who are interested in saving power and perfecting their product will make further inquiry.

Southern Agents  
**Dixie Spindle & Flyer Co.**  
Charlotte, N. C.

## Personal Items

E. C. Gossett of the Woodside Mills, Greenville, S. C., will probably be appointed coroner of his county.

Edgar Love, president of the Saxony Spinning Company, of Lincoln, N. C., returned Wednesday from a business trip of several days in Philadelphia. He says the business outlook is fine, business men in the Pennsylvania city being very optimistic over the outlook.

### Came Near Losing Hand in Moving Card.

B. D. Haney, a card grinder of the No. 3 carding room of the Massachusetts Mills, Lindale, Ga., narrowly escaped having his right hand ground off in a fast-moving card early Monday morning.

The machine was running backwards for the purpose of grinding the card's teeth when his hand got caught. Quick as thought he jerked his hand away and probably saved it. The flesh on the three last fingers were ground off to the bone on one side. Two of his fingers may be stiffened as the result.

### Monarch Mills Fair a Success.

Monarch Mills Second Annual Community fair, at Union, S. C., which was held on Saturday, was a splendid success in every way, the elaborateness and attractiveness of the exhibit being marvelous.

The fair, which was held in a large hall above the drug store was most tastefully decorated in ivy and cotton roving, which draped from the corners of the hall to the chandeliers and around the various exhibit booths. In the center of the room was a long bank of beautiful potted flowers and plants of all descriptions, while on each side were the booths containing fancy work articles, jellies, canned goods, old relics, cakes and other things, all forming a most attractive combination.

A special room was devoted to a health exhibit over which Mrs. Clarence McEachern, who is the trained nurse employed by Monarch and Excelsior Mills had charge. Another very interesting display was that of the Bethel Methodist and Mon-Aetnar Baptist Sunday schools. These displays consisted of different charts showing the work that the schools had done and were planning to do, among the important facts thrown out being that in the Monarch Mill village there are 1,525 persons, of which 558 are enrolled in the Sunday school, of these 64 are babies on the cradle roll of Bethel school.

The fair was very largely attended, not only by the residents of that section of the city, but by hundreds of persons from all parts of Union, and every one was loud in praise of the magnificent showing made by the people of Monarch on this occasion, and a letter was read by Emslie Nicholson, treasurer and manager of the mill, from Governor Manning, who had been invited to be present and deliver and address,

expressing deep regret that circumstances prevented him from being there, and assuring them of his interest in their work and welfare

### Arcade-Victoria Fair.

Continued from Page 9.)

the mills are proud of. In fact, we expect to see some of the standard time records lowered.

The management is gratified over the playground work and plenty of colleges would be proud to have some of our large husky boys for their football team. The physical man is being satisfactorily developed, and the team work of the playground is spreading throughout the operations of the mills.

**Religious Influences**—The religious influences, which are essential to the permanent success of any

community, could not be better, Miss Emma Dowell, State Missionary for the Baptist Church for Rock Hill can be found most any time visiting the sick and well alike. Rev. Mr. Cox, pastor of the Baptist church and Rev. Mr. Polk pastor of the Methodist, co-operate splendidly with the people and management in raising the moral and religious tone of the two villages. We are fortunate in having these good people constantly with us.

Our people are happy and contented. They hold membership with Associated Charities and with the Community Y. M. C. A. movement of the city of Rock Hill. They are not objects of charity, but on the other hand citizens of Rock Hill helping to make a good town better.—Rock Hill Record.

WHY have ENTWISTLE WARPERS maintained their position of leadership?

BECAUSE for more than 25 years we have been concentrating on this line, our watchword being simplicity, practicability and efficiency of construction and operation.

Our new catalogue, which can be had for the asking, will be found of value if you are interested in

BALL WARPERS

BEAM WARPERS

BEAMING MACHINES

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## Bradford Soluble Grease



Unexcelled as a softening agent in the finishing of Cotton fabric. Used extensively both by finishers of colored goods and bleachers in finish of whit fabrics. Any degree of "softness" may be obtained by the proper use of this article. A neutral preparation. Write for recipe for finishing.



## ARABOL MANUFACTURING CO.

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Southern Sales Agent

CHARLOTTE, N. C.

## PROPER LOCATIONS FOR MILLS.

United States Census figures show that since 1880 the consumption of cotton in mills of the cotton growing States has increased 1,502 per cent, as compared with an increase of only 93 per cent in all other states. In the twelve months ended August 31, 1914 Southern mills consumed 162,097 more bales of cotton than the mills of all other States. Three-fourths, or 9,000,000, of the total cotton spindles in the cotton growing States are tributary to Southern Railway tracks. Of the 200 knitting mills in the South over 125 are located along the Southern Railway. Nearly all the Southern woolen and silk mills are also on Southern Railway tracks.

There is a reason for this, and it is not difficult to understand.

The Southern Railway Lines enter and serve most completely those portions of the South where the textile industry is the greatest success, because there are found all the conditions which makes for successful manufacture—the proper transportation facilities, the ease with which the raw material and the needed fuel may be secured, the supply of good labor, the pure water, the low cost of power, and favorable local conditions.

Not only for textile plants but for all other industries the best advantages will be found in this territory.

If you have a plant to locate, let us take up with you the question of the proper location. Your plans will be held confidential. Our knowledge of conditions at various points and our experience in locating other mills and the time of our agents in making special investigations are at your service if desired.

M. V. RICHARDS, Industrial and Agricultural Commissioner,

Southern Railway,

Room 129,

Washington, D. C.



# Want Department

## Want Advertisements.

If you are needing men for any position or have second hand machinery, etc. to sell the want columns of the **Southern Textile Bulletin** afford the best medium for advertising the fact.

Advertisements placed with us reach all the mills and show results.

## Employment Bureau.

The Employment Bureau is a feature of the **Southern Textile Bulletin** and we have better facilities for placing men in Southern mills than any other journal.

The cost of joining our employment bureau is only \$1.00 and there is no other cost unless a position is secured, in which case a reasonable fee is charged.

We do not guarantee to place every man who joins our employment bureau, but we do give them the best service of any employment bureau connected with the Southern textile industry.

## Farm For Sale.

For Sale—100 acres well improved farm, one mile from 15,000 spindle cotton mill, Goldville, S. C. Good schools and churches. New 4-room dwelling. New barn. Two tenement houses, and necessary outhouses. 75 acres are under cultivation. Ideal farm in many respects. Write for further particulars and price to Farm, care Southern Textile Bulletin.

## Wanted.

Overseer for spinning, twisting and warping, in a new 15,000-spindle combed yarn mill, about to be built to make from 40s to 120s. To be located in a clean and healthy town not far from Charlotte, N. C. Good wages to right man. Address "Spinner," care Southern Textile Bulletin.

# FOR SALE

20 Lowell Machine Shop Spoolers, for all practicable purposes, as good as new. These Spoolers will be sold at a bargain.

Also, about 10,000 4½x6-inch Metal Head Spools, all in good condition. Will be sold cheap. Parties interested write

**JACKSON FIBRE CO., Bemis, Tenn.**

WANT position as superintendent, overseer of weaving or traveling representative. Have had experience in all three positions and am well qualified for each. Would prefer connection with some sizing manufacturer. Address No. 1235.

WANT position as carder or spinner, 18 years overseer of carding and spinning, and am well versed in all processes of cotton manufacturing, including twisting and twine-making. Am a middle-aged man with family. Can give good references. Address No. 1236.

WANT position as superintendent of small mill, where I can invest part of my salary. Have long experience as overseer of carding and am now employed as such but want place as superintendent. Age 35. Good habits. Excellent references from present employers. Address No. 1237.

WANT position as overseer of weaving. Have had long experience on both white and colored work and all makes of looms. Can furnish satisfactory references. Address No. 1238.

WANT position as superintendent or as overseer of large card room. Have had long experience in both positions with special reference on fine yarn. Best of references. Address No. 1239.

WANT position as superintendent of either yarn or weave mill or carder in large mill. Now employed, but want larger job. Good experience and references. Address No. 1240.

WANTED—Position of overseer of weaving, preferably Drapers, at \$4.00 or more per day. 19 years in the weave room. 36 years of age. Married. Total abstainer. Now employed as overseer. Pusher for production, quality and low costs. Present salary inadequate for large growing family. Address No. 1241.

WANT position as superintendent of medium sized mill or overseer spinning in large mill. Have had long practical experience and can furnish excellent references. Address No. 1242.

WANT position as superintendent of weaving mill. Experienced on both white and colored goods. Familiar with all departments and am now employed as superintendent. Address No. 1243.

WANT position as Supt. or manager. Now employed as Supt. but in undesirable location and prefer to change. Long experience and fine references. Address No. 1244.

WANT position as superintendent of either plain weaving or yarn mill. Am all-round practical mill man, but especially strong on carding. Have made a close study of waste problems and am in position to more than save my salary in the waste account. Let me investigate your waste conditions. Correspondence confidential. Address No. 1245.

# PATENTS

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Suite 34 N. U. Washington, D. C.

WANT position as overseer of weaving. Draper or plain looms. Am experienced on drills, duck, osnaburg and sheetings. Can give good references as to character, and ability to get the required production. Address No. 1246.

WANT position as overseer of twisting, spooling and winding. Age 30. Married. Strictly sober. Can give present employers as reference. Address No. 1247.

WANT position as overseer of carding. Now employed, but want larger job. Special experience on combers and fine work. Satisfactory references. Address No. 1248.

WANT position as overseer spinning in small mill or second hand in large mill. 39 years of age, with 27 years experience in spinning. Prefer mill in a small place. Good references. Address No. 1249.

WANT position as overseer of spinning. Reason for changing to better myself. Now employed. Address No. 1250.

WANT position as superintendent of medium sized mill or overseer of spinning. Eight years experience as overseer. Married. 42 years of age. Good references. Can change on short notice. Address No. 1251.

WANT position as superintendent. Have been superintendent of some of the most prosperous mills in the South and have long experience on a wide variety of goods. Fine references. Address No. 1252.

WANT position as superintendent. Have had 18 years experience as superintendent and held last position 10 years. Can furnish best of references. Address No. 1253.

WANT position as superintendent. Now employed but for good reason prefer to change. Am a good manager of help and have always made good. Satisfactory references. Address No. 1254.

WANT position as superintendent. Now hold traveling position but wish to return to mill. Long experience as superintendent and always made good. Fine references from former employers. Address No. 1255.

WANT position as superintendent or overseer of carding or spinning. Can furnish present and former employers as references. Only reason for changing is that I want larger job. Address No. 1256.



WANT position as overseer of weaving. Have had long experience and am now employed, but for good reasons prefer to change. Fine references. Address No. 1257.

WANT position as manager or superintendent. Would take stock in night mill. Long experience and have always made money for mills I have run. Satisfactory references. Address No. 1258.

WANT position as superintendent or overseer of carding and spinning. Long experience and am now employed. Can furnish satisfactory references. Address No. 1259.

WANT position as overseer of weaving at not less than \$3.00 per day. Now employed and give satisfaction but prefer different kind of job. Address No. 1260.

WANT position as overseer of carding or spinning or both. Have had long experience and can furnish best of references both as to character and ability. Address No. 1261.

WANT position as carder or spinner. Now employed at night and give satisfaction but want day job. Can furnish good references. Address No. 1262.

A THOROUGHLY COMPETENT AND ENERGETIC YOUNG SUPERINTENDENT OF 30 YEARS WANTS larger position. Am practical and capable of giving good service on either plain, fancy or colored goods. Will be pleased to submit references and correspond with any good size mill needing a man. Address No. 1263.

WANT position as engineer and master mechanic. 15 years experience in engine room and shop. Am employed at present but desire to change. Good references. Address No. 1264.

WANT position as superintendent of large mill. Now employed in good size mill and give entire satisfaction but want larger job and am competent to handle one. Address No. 1265.

WANT position as superintendent of yarn mill. Have had long experience and can furnish best of references from former employers. Address No. 1266.

POSITION as superintendent wanted by a practical mill man. Have had 14 years experience as superintendent and thoroughly understand all details connected with the manufacturing of cotton goods. Can give A-1 references as to ability and character. Address No. 1267.

WANT position as mill machinist or master mechanic. Understand cotton mill work and all kinds of brazing. Now employed. Good references. Address No. 1268.

WANT position as superintendent or overseer of large weave room. Have had long experience and handled some of the most success-

ful mills in the South. Can furnish good references and get results. Address No. 1269.

WANT position as overseer of spinning. Am now employed and giving satisfaction, but want better mill. First class references. Address No. 1270.

WANT position as superintendent or office man. Besides having long experience as superintendent, as a thoroughly experienced bookkeeper and accountant. Address No. 1271.

WANT position as superintendent. Prefer a yarn mill. Age 39. Strictly sober. Have held present position six years and can furnish first-class references. Address No. 1272.

WANT position as overseer of carding. Would accept second hand in a large mill. Now employed and have had long experience. Best of references. Address No. 1273.

WANT position as superintendent of yarn mill or as overseer of carding. 12 years experience as overseer and can get results. Married and strictly sober. Address No. 1274.

WANT position as overseer of spinning. Have had long experience and have run large rooms successfully. Can furnish best of references. Address No. 1275.

WANT position as superintendent, overseer of weaving or traveling salesman. Have had experience in such positions and can furnish good references. Address No. 1276.

WANT position as bookkeeper or office man in cotton mill. Eight years experience in cotton mill office work and at present have charge of a mill office. Best of references. Address No. 1277.

AN EXPERIENCED MAN wishes to correspond with a mill that needs a superintendent that can get results. Age 3. Married. Held last position nine years. Gilt edged references. Address No. 1278.

WANT position as superintendent, or carder and spinner. Especially experienced in card room. Can give fine references and good reason for wanting to change. Address No. 1279.

WANT position as carder in large mill or superintendent of small mill on hosiery yarns. Now employed and giving satisfaction, but prefer to change. Good references. Address No. 1280.

WANT position as chief engineer and master machinist. 12 years experience. Strictly sober. Good manager of help and can keep plant in tip-top shape at low cost. Address No. 1281.

WANT position as master mechanic. 20 years experience and can furnish fine references. Have 2 doffers and 1 spinner. Am strictly sober. Address No. 1282.

WANT position as superintendent or overseer of spinning. Age 38. Held last position five years and can furnish very satisfactory references from South Carolina mills. Address No. 1283.

WANT position as carder and spinner. Now employed but have good reasons for desiring to change. Can get results and can give present employers as references. Address No. 1284.

WANT a position as overseer in small spinning room, or second hand in larger room. Have had ten years experience in spinning and spooling. Age 30. Married strictly sober. Address No. 1285.

WANT position as overseer of spinning, spooling, warping and slashing. Have 15 years experience in that line. Married. Can give good references. Address 1286.

WANT position as overseer of spinning or as second hand in large room. Experienced on 4s to 60s, warp, hosiery and mercerizing yarns, single and ply. Married. Age 39. Can furnish references as to ability and character. Address No. 1287.

WANT position as chief engineer or master mechanic. Have 12 years experience and am now employed, but wish to change. Address No. 1288.

WANT position as overseer of weaving. Now employed, but want larger job. Have had long experience as overseer spinning and class of references. Address No. 1289.

WANT position as superintendent or overseer of spinning. Now employed and giving satisfaction but not satisfied with location of mill. Have experience both as overseer and superintendent. Address No. 1290.

WANT position as overseer of spinning or spinning and winding. Would take carding and spinning at night. Have had 8 years experience as overseer spinning and can give satisfactory references. Address No. 1292.

WANT position as superintendent. Have had long experience both as superintendent of yarn and weaving mills and am a good manager of help. Can furnish best of references. Address No. 1293.

WANT position as superintendent or overseer of spinning or overseer of twisting in a duck mill. Have had long experience as overseer and can handle any size room. Address No. 1294.

WANT position as overseer of cloth room. Now employed but want larger room. Age 29. Have common school and Business College education. Can furnish the very best of references. Address No. 1296.

A PRACTICAL mill man wants position as superintendent in a small yarn mill or overseer of carding

## Commonwealth Hotel

INCORPORATED

Opposite State House, Boston, Mass.



Offers rooms with hot and cold water for \$1, which includes free use of public shower baths.

NOTHING TO EQUAL THIS IN NEW ENGLAND

Rooms with private baths for \$1.50 per day; suites of two rooms and bath for \$4.00 per day.

ABSOLUTELY FIREPROOF

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STORER F. CRAFTS, Gen. Mgr.

and spinning in a large mill. Best of references as to work and character. Am now employed as carder, but can change on short notice. Address No. 1298.

WANT position as spinner or carding and spinning. Long experience in cotton manufacturing. Am a competent, energetic young man of 32 years. 22 years in carding and spinning. Am also technical graduate and hold diploma. Now employed as overseer spinning in large mill. Can change on 12 days notice. References. Address No. 1299.

WANT position as superintendent. Have long experience. Am now employed and always gave satisfaction. Reason for changing is better salary. Age 45. Married. Strictly sober. Experienced from ground up on both white and colored work. Address No. 1300.

WANT position as overseer of large card room or as carder and spinner in small mill. 40 years old, sober, good manager of help and best of references. Getting results is a habit with me. Address No. 1301.

WANT position as superintendent or overseer of spinning. Have been on present job three years and am giving satisfaction, but want location where there are better schools. Present employer as my reference. Address No. 1306.

WANT position as superintendent. Have had long experience and have run some of the best mills in the South. Have always made money for my mills. Satisfactory references. Address No. 1305.

WANT position as overseer of spinning. Best of references as to character and ability as a spinner. Now employed but desire to change. Address No. 1307.



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Metallic Drawing Roll Co.  
Saco-Lowell Shops.  
Southern Spindle & Flyer Co.

## ROVING CANS—

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## ROVING MACHINERY—

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## SADDLES—

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Graphite Lubricating Co.

## SEPARATORS—

Draper Company.

## SHUTTLES—

Shambow Shuttle Co.

## SIZING COMPOUND—

Arabol Mfg. Co.  
John P. Marston.  
A. Klipstein & Co.  
Seydel Mfg. Co.  
So. Dyestuff & Chemical Co.

## SLASHERS—

Saco-Lowell Shops.

## SOAPS—

Seydel Mfg. Co.

## SOFTENERS—COTTON—

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New Brunswick Chemical Co.  
A. Klipstein & Co.  
Seydel Mfg. Co.  
So. Dyestuff & Chemical Co.

## SPINDLES—

Chapman Gravity Spindle Co.  
Draper Company.  
Dixie Spindle & Flyer Co.  
Southern Spindle & Flyer Co.

## SPINNING RINGS—

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Draper Company.  
Whitinsville Spinning Ring Co.  
Pawtucket Spinning Ring Co.

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Saco-Lowell Shops.

## STARCH—

Corn Products Refining Co.  
Keever Starch Co.

## TEMPLES—

Draper Company.  
Hopedale Mfg. Co.

## TURBINES—

General Electric Company.  
Westinghouse Electric & Mfg. Co.

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Draper Company.  
Saco-Lowell Shops.

## WARP STOP MOTIONS—

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Draper Company.  
Hopedale Mfg. Co.  
The Stafford Co.

## WEIGHTING COMPOUNDS—

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Bosson & Lane.  
Faberwerke-Hoechst Co.  
John P. Marston.  
A. Klipstein & Co.  
Seydel Mfg. Co.  
So. Dyestuff & Chemical Co.

## WELDING OUTFITS—

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## WARPERS—

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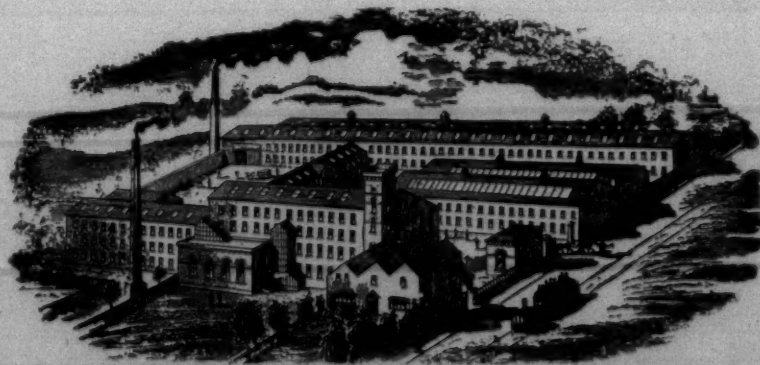
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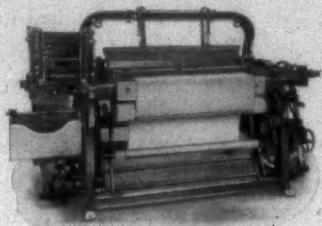
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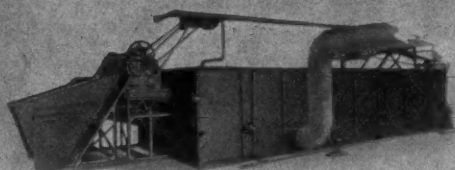
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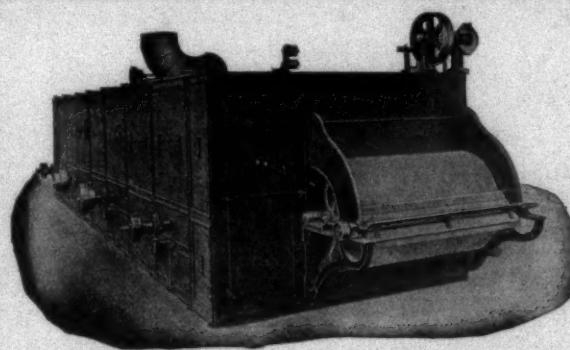
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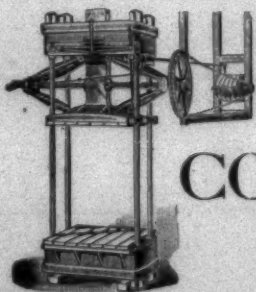
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